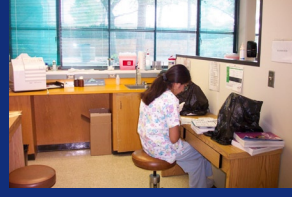
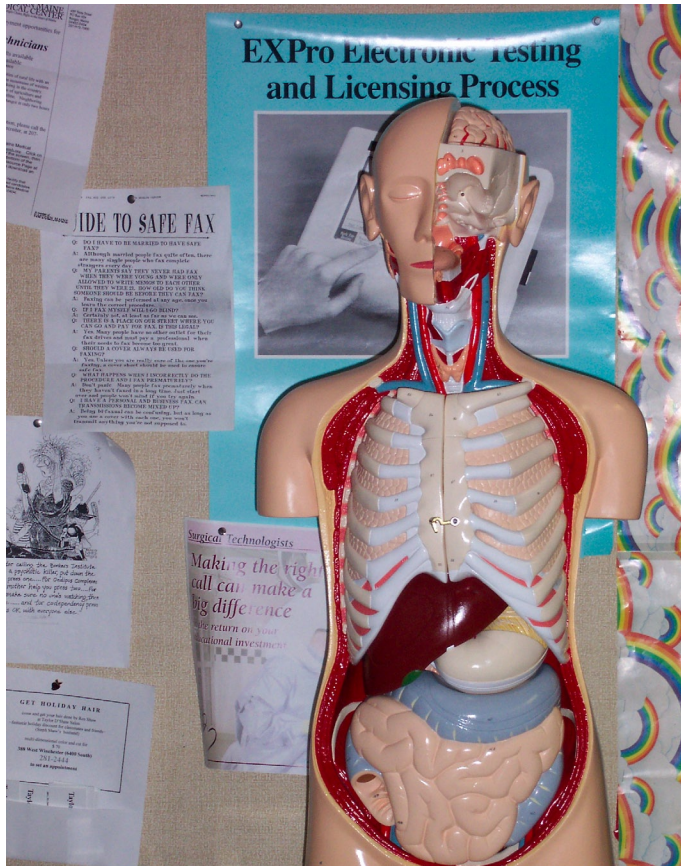




slcc jordan campus health sciences center program
laura bayer architectural planning & programming / hfs architects



health sciences administration slcc jordan campus health sciences center



Want a Good Job?

Then Consider Joining
The Health Sciences Team

Salt Lake Community College

PROGRAMS INCLUDE

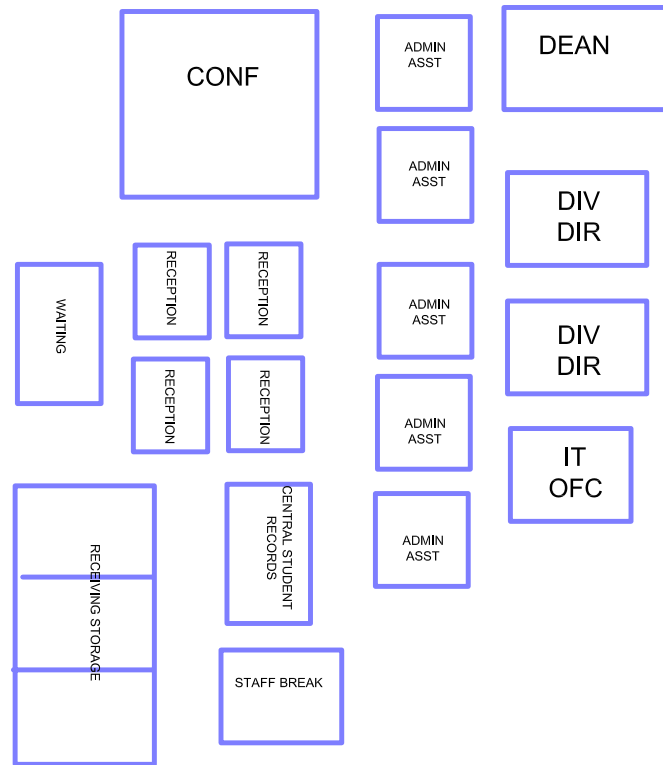
- ▲ Dental Hygiene
- ▲ Fitness Technician
- ▲ Medical Administrative Assistant
- ▲ Medical Assistant
- ▲ Medical Lab Technician
- ▲ Biotechnology Technician
- ▲ Physical Therapist Assistant
- ▲ Occupational Therapy Assistant
- ▲ Radiologic Technology
- ▲ Surgical Technology
- ▲ Veterinary Technician





#	space	user capacity	quantity	nsf each	total nsf	total unassign- able sf	total gsf
01	Division Director Office		2	150	300		300
02	Administrative Assistant Office		4	100	400		400
03	Reception / Clerical		4	80	320		320
04	Waiting		6	20	120		120
05	Work / Copy		1	150	150		150
06	Dean's Office		1	180	180		180
07	Dean's Administrative Assistant Office		1	100	100		100
08	Staff Break Room		1	120	120		120
09	Conference	12	1	300	300		300
10	Central Student Records		1	150	150		150
11	IT Office		1	120	120		120
12	Receiving / Storage		3	125	375		375
13	AHEC Office Suite		1	1,250	1,250		1,250
TOTALS					3,885		3,885

health sciences administration

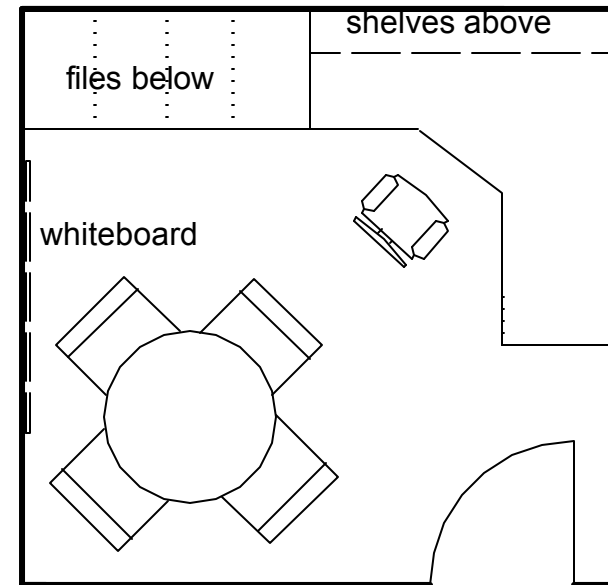


summary	
space type	enclosed private office
net sf each space	150 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	main level
proximity	cluster with other administrative offices
access	administrative assistant, reception, waiting, conference
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

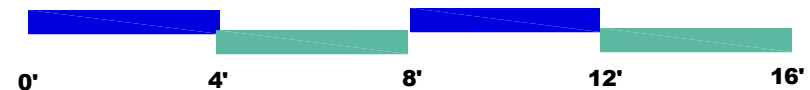
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
4	side chair, armless, upholstered			20" x 20" approx.
1	table			48" round
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				

Provide privacy for confidential transactions



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



summary

space type	enclosed private office
net sf each space	100 sf
total of this type	4
assigned users	1 full-time administrative assistant
visitors	1-2
functions	professional work space

location and relationships

location	main level
proximity	reception/clerical dean, division directors
access	convenient access to work/copy and records areas
security	wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
back-up generator	no
phone	Internet access
data	computer work area
video/tv	none

lighting

natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor

sound control

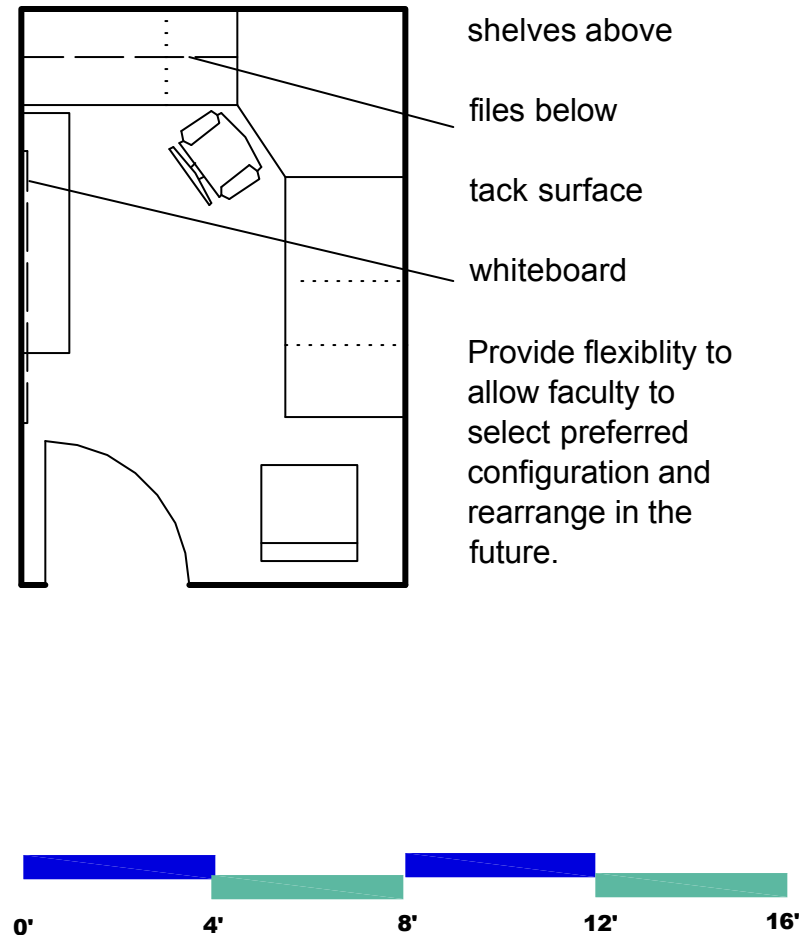
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

		none		
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
1	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				

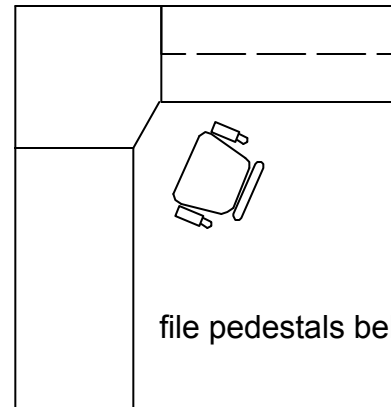


summary	
space type	open work station
net sf each space	80 sf
total of this type	4
assigned users	1
visitors	1-2
functions	professional work space
location and relationships	
location	main level
proximity	reception/clerical dean, division directors
access	convenient access to work/copy and records areas; accessible to public, near major building entry
security	lockable workstation
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

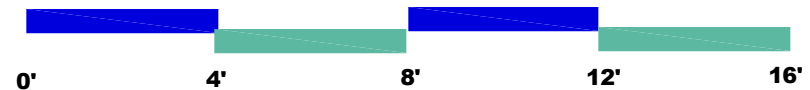
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	tack board / tack surface			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface, angled corner			24" x 30"
4	letter size file pedestals			15" x 29"
1	binder bin with lockable doors			12" x 60"
	work station coat hook, tack surface, keyboard drawer, task light			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				

lockable binder bin above



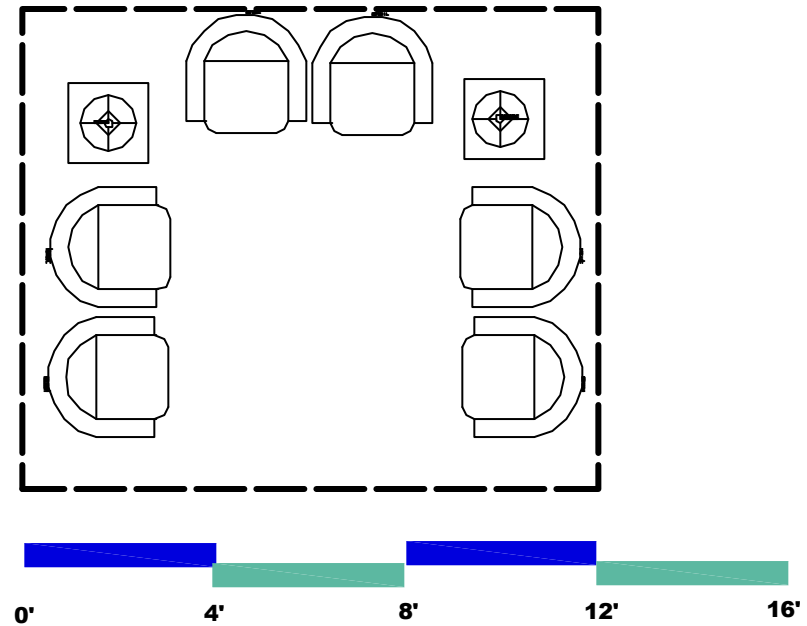
file pedestals below



summary	
space type	open waiting area
net sf each space	120 sf
total of this type	1
assigned users	none
visitors	6
functions	visitor waiting area
location and relationships	
location	mian level
proximity	central to administrative area
access	prominent building location proximate to main entry
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	capacity to support laptop
video/tv	none

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

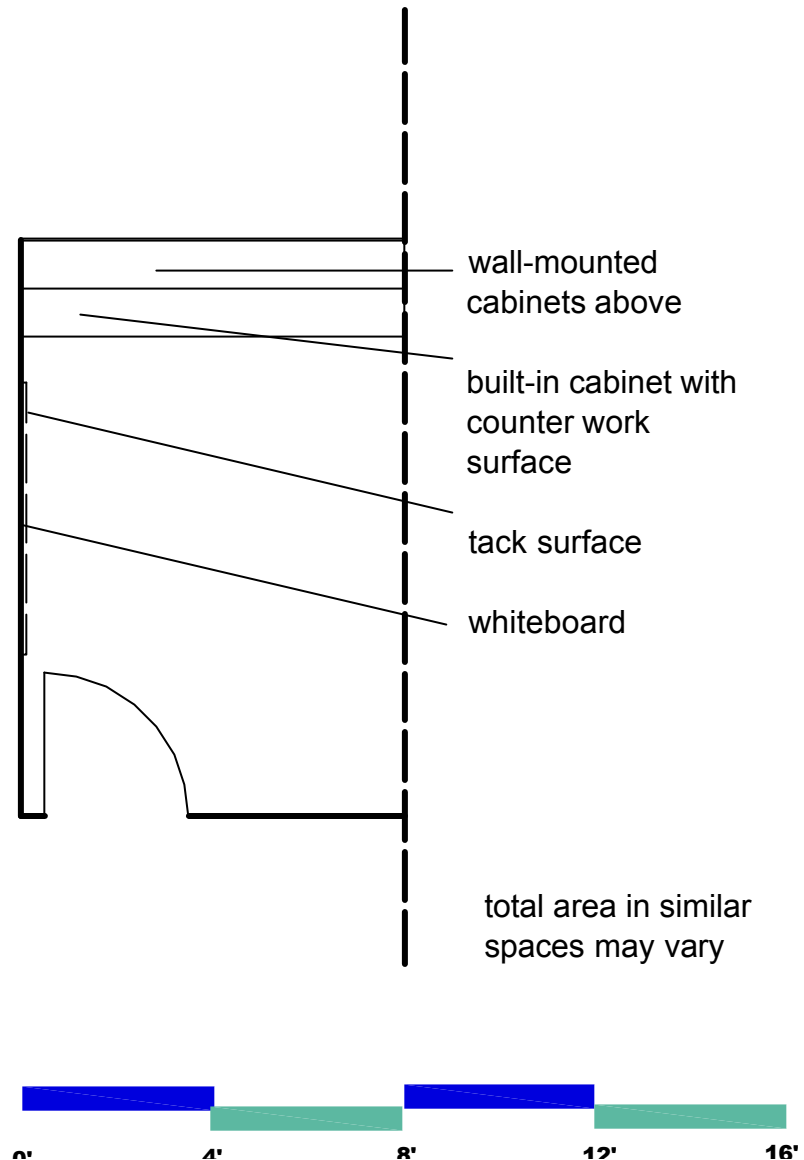
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	information rack			
movable furnishings				
1	waste can			
6	side chairs, armless			20" x 20" approx.
2	end tables			
equipment				
1	laptop computer			
2	table lamps			
space notes				



summary	
space type	work/copy/ storage
net sf each space	150
total of this type	1
assigned users	0
visitors	administrative staff
functions	store program supplies and small equipment
location and relationships	
location	main level
proximity	clerical staff, administrative assistants
access	convenient access for directors and deans
security	wireless keypad
finish <small>see Jordan Campus Design Guidelines</small>	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical <small>plus capacity for equipment listed below</small>	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use

video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

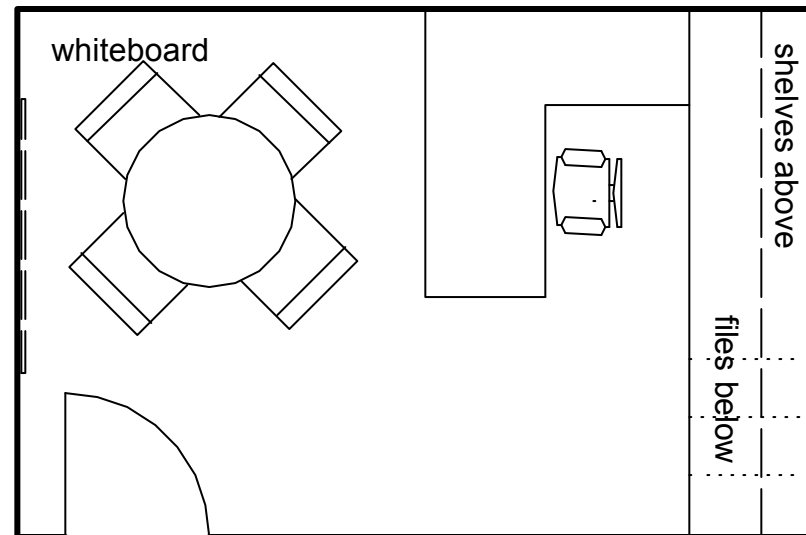
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
10 lf	open adjustable shelving			12" x 10'
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				



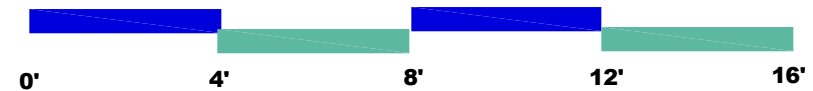
summary	
space type	enclosed private office
net sf each space	180 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-4
functions	professional work space with privacy for confidential conversations
location and relationships	
location	main level
proximity	cluster with other administrative offices
access	administrative assistant, reception, waiting, conference
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
4	side chair, armless, upholstered			20" x 20" approx.
1	table			42" round
equipment				
1	desltop computer			
1	computer printer			
space notes				



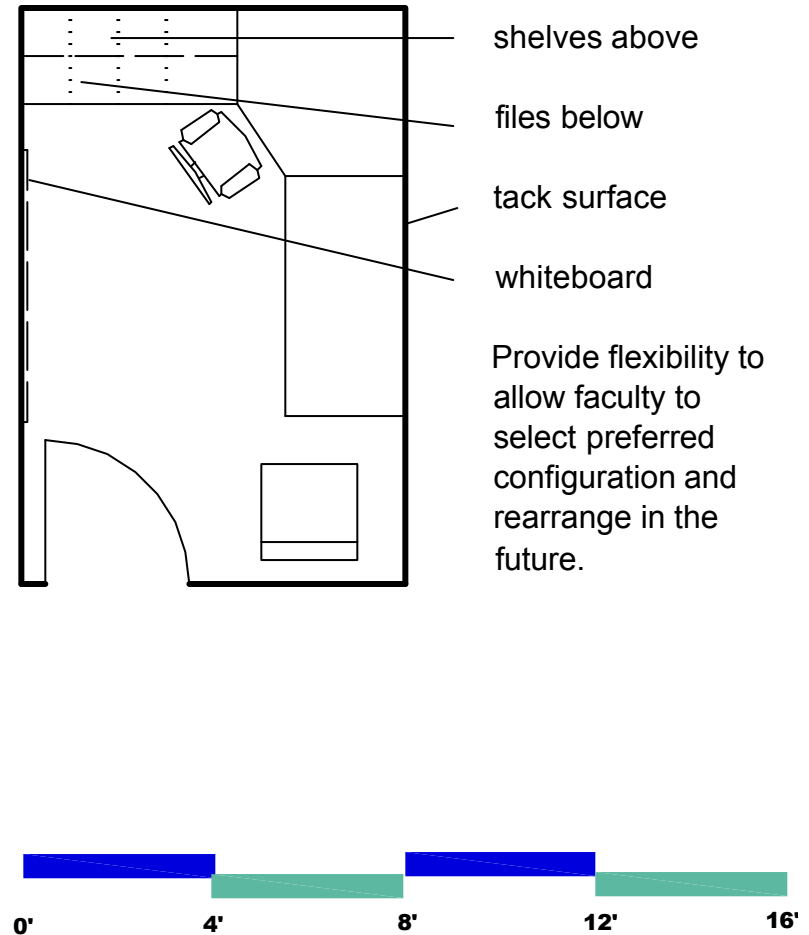
Provide privacy for confidential transactions.



summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	1
assigned users	1 full-time administrative assistant
visitors	1-2
functions	professional work space
location and relationships	
location	main level
proximity	dean reception/clerical
access	convenient access to work/copy and records areas
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

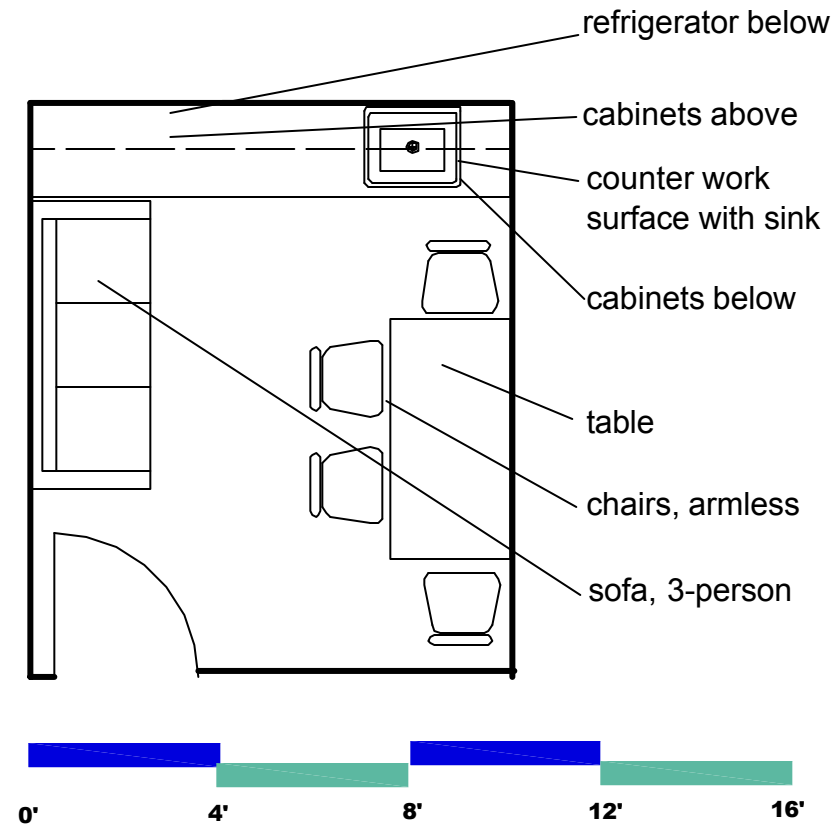
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
1	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				



summary	
space type	staff break
net sf each space	120
total of this type	1
assigned users	0
visitors	administrative staff
functions	provide a break area for staff
location and relationships	
location	main level
proximity	work/copy / storage
access	convenient access for staff; separated from public areas
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical	plus capacity for equipment listed below
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	hot and cold water, sink
hazardous materials	
	none

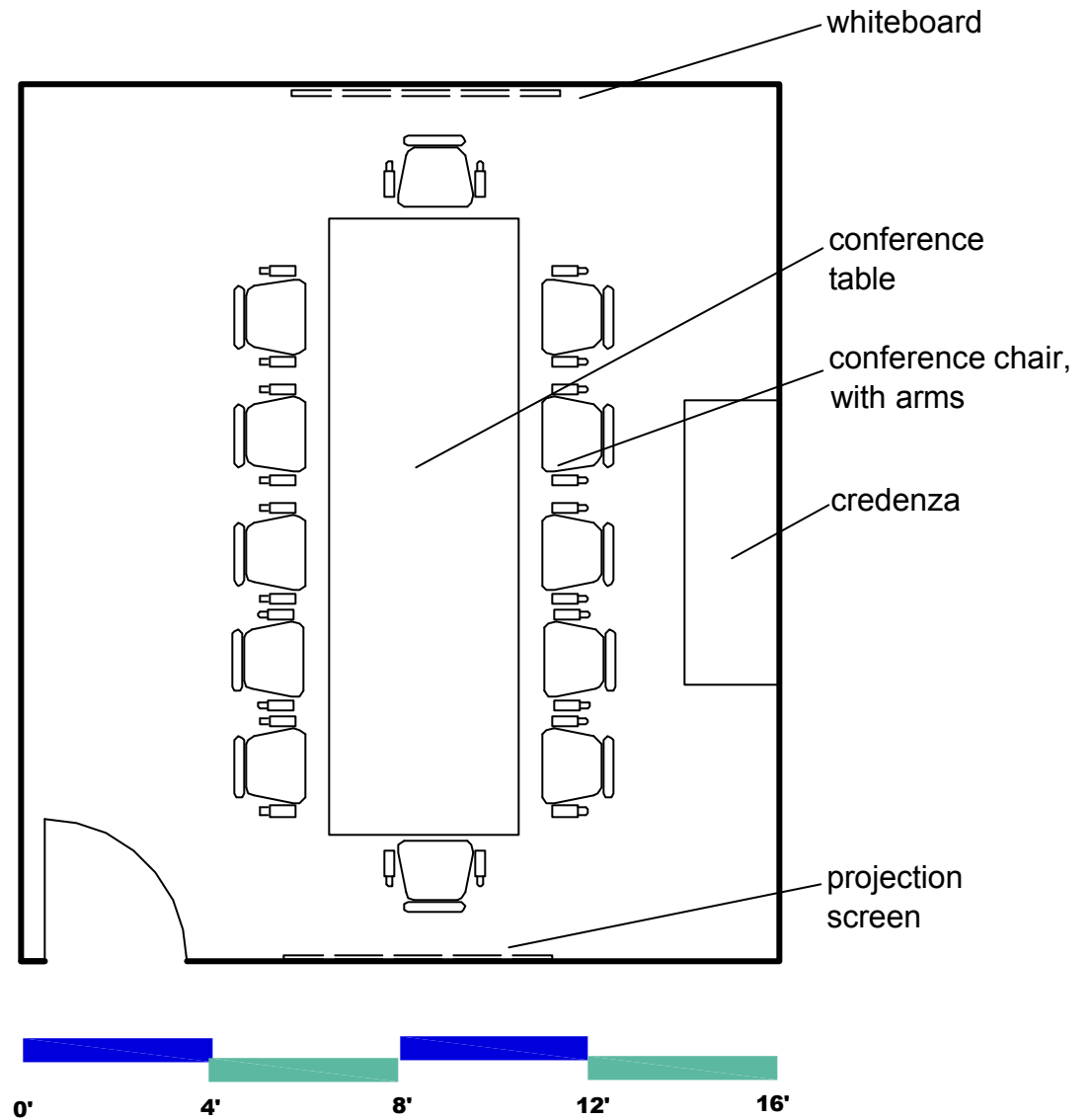
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface and sink, adjustable shelving belwo			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
10 lf	open adjustable shelving			12" x 10'
movable furnishings				
1	sofa, 3 person			
1	table, round			42" diameter
4	side chairs, armless, upholstered			20" x 20" approx.
1	waste receptacle, large			
equipment				
1	undercounter refrigerator			
1	microwave			
space notes				



laura bayer architectural planning & programming / hfs architects

DFCM#03047640

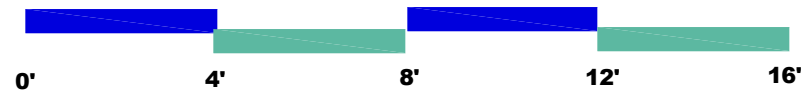
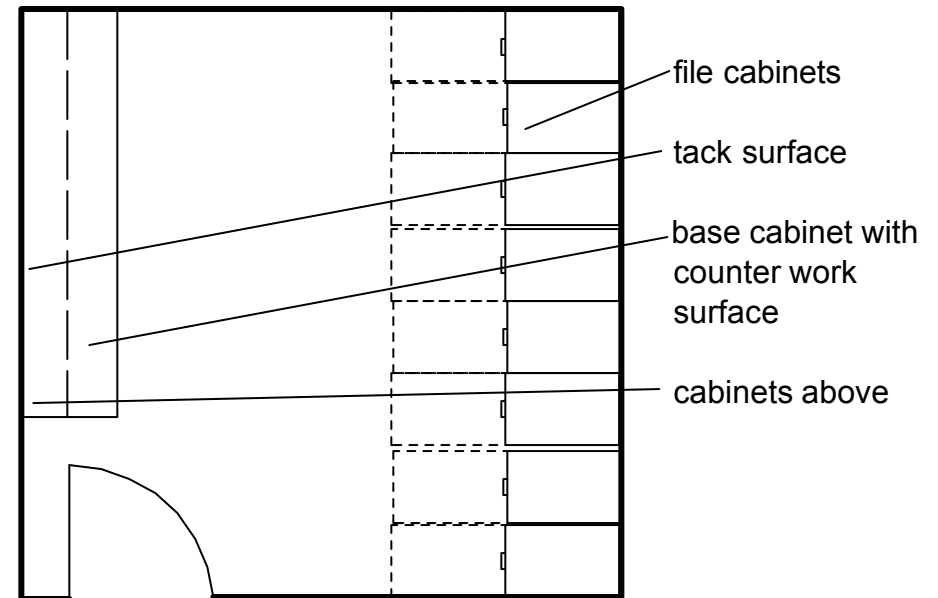
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	12-person conference table			
12	conference chairs, armless, on casters			
1	credenza			24" x 72"
equipment				
12	laptops			
1	VCR			
1-2	DVD player			
1	document camera			
1	switching system			
	audio speakers			
	capacity for smart board			
space notes				



summary	
space type	file room
net sf each space	150
total of this type	1
assigned users	0
visitors	administrative staff
functions	store health sciences student records
location and relationships	
location	main level
proximity	clerical staff, administrative assistants
access	convenient access for directors and deans
security	wireless keypad
finish <small>see Jordan Campus Design Guidelines</small>	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical <small>plus capacity for equipment listed below</small>	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use

video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

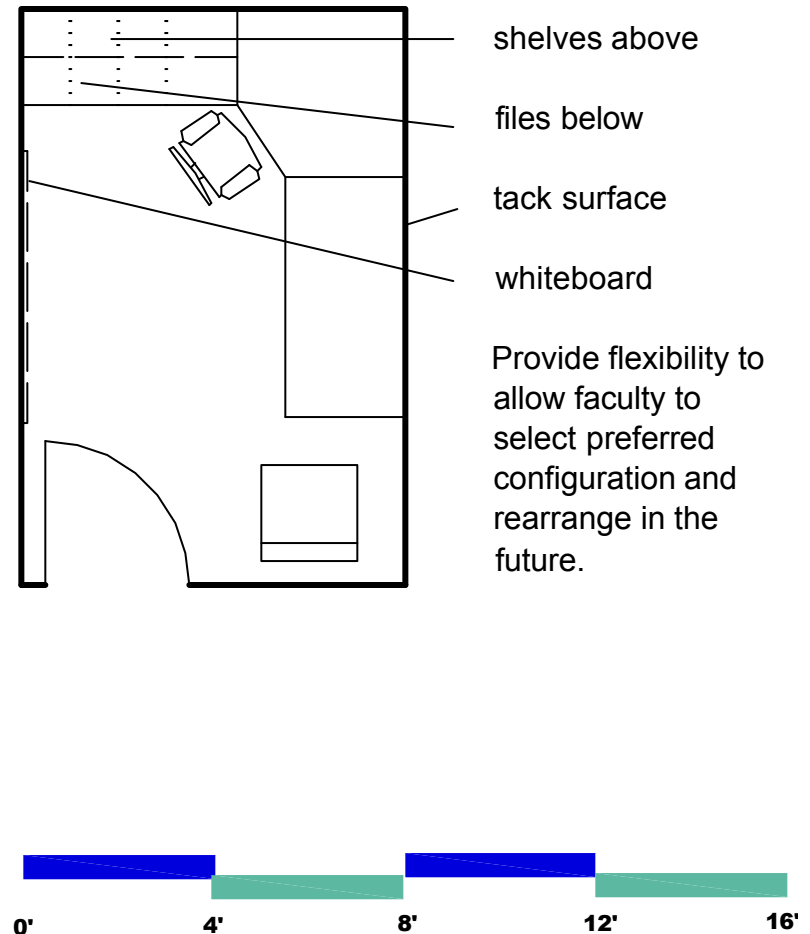
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
8 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
8 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
movable furnishings				
	file cabinets, 4 drawer letter			
equipment				
1	photocopier			
space notes				



summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	1
assigned users	1
visitors	1-2
functions	professional work space
location and relationships	
location	main level
proximity	reception/clerical dean, division directors
access	convenient access to work/copy and records areas
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none
lighting	
natural light	yes

foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

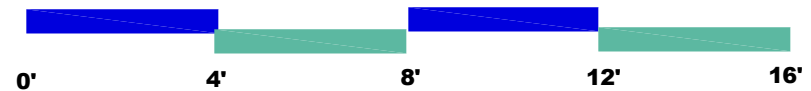
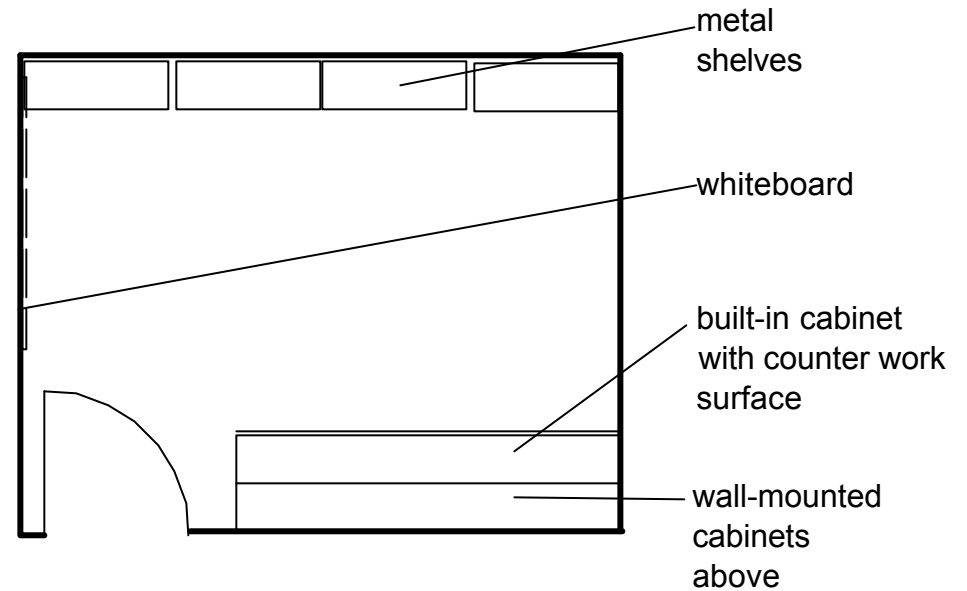
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				



summary	
space type	receiving / storage
net sf each space	125
total of this type	3
assigned users	0
visitors	administrative staff
functions	receive and store supplies for distribution to the 2 health sciences divisions and the general science programs
location and relationships	
location	main level
proximity	building entry, elevator, clerical staff
access	program heads
security	wireless keypad; separate spaces for each division to allow administrative control of materials
finish	
see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board hard-surface flooring
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity
data	capacity for alternate future use

video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	wastse receptacle			
4	metal shelf units, 7 shelves			12" x 36"
equipment				
space notes				



summary	
space type	enclosed office suite
net sf each space	1,250 sf
total of this type	1
assigned users	
visitors	
functions	professional work space for Utah Area Health Education Centers
location and relationships	
location	lower level
proximity	cluster with other offices
access	elevator
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimumone double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desks
data	computer work areas
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45 - 50
full sound walls	full sound walls not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75 ^o F
winter design temp	72 ^o F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
space notes				

Provide private offices, work space, reception/waiting, and storage as determined by this professional organization at time of design.

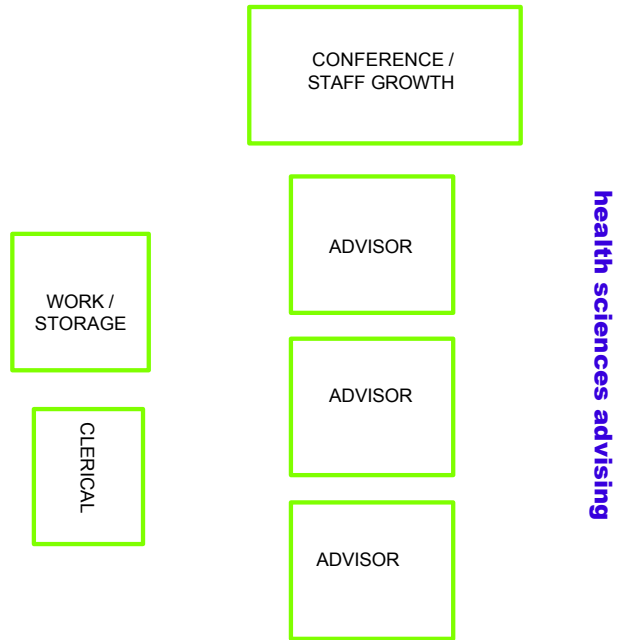


health sciences advising
slcc jordan campus health sciences center





#	space	user capacity	quantity	nsf each	total nsf	total unassignable sf	total gsf
01	Admissions Specialist	1	1	120	120		120
02	Advisors	1	2	120	240		240
03	Small Conference / Faculty Growth		1	200	200		200
04	Clerical Support	1	1	80	80		80
05	Office / File Storage		1	100	100		100
TOTALS					740		740



summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	1
assigned users	1 full-time administrative assistant
visitors	1-2
functions	professional work space with space for consultation
location and relationships	
location	main level
proximity	reception/clerical dean, division directors
access	convenient access to work/copy and records areas
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none
lighting	

natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	whiteboard with frame and tray			48" x 36"
1	signage/rack			

movable furnishings

1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.

equipment

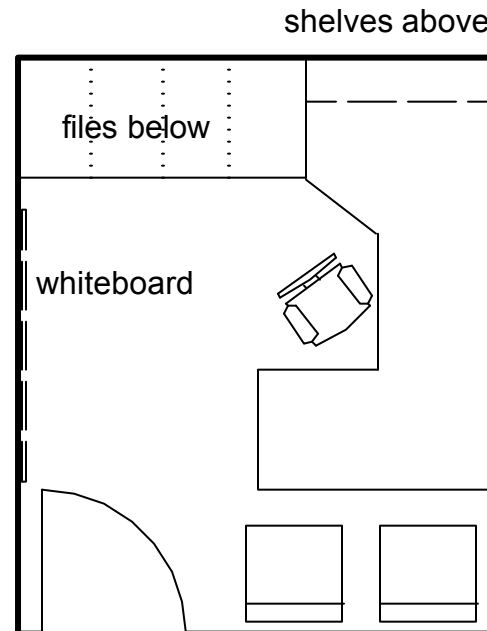
1	desktop computer			
1	computer printer			

space notes

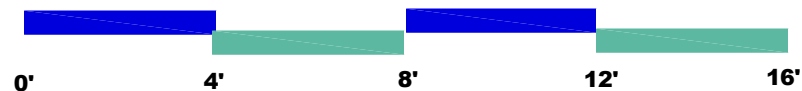
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.

This office needs a prominent location and a clear identity, since it often serves as a first point of contact for students.

Provide privacy for confidential transactions



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

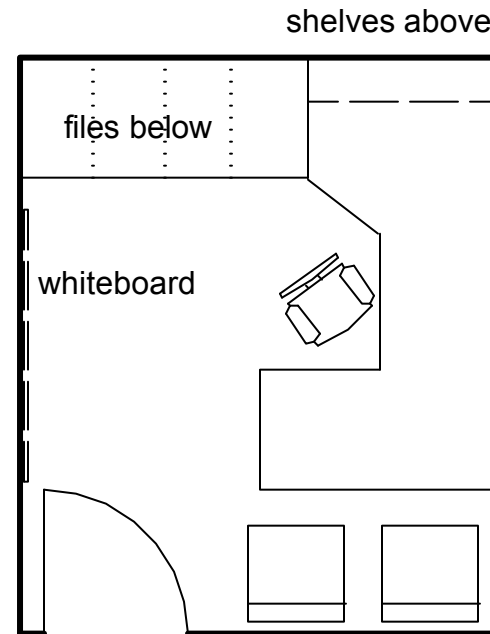


summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	2
assigned users	1 advisor
visitors	1-2
functions	professional work space with space for consultation
location and relationships	
location	main level
proximity	admissions specialist
access	convenient access to work/copy and conference areas
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none
lighting	

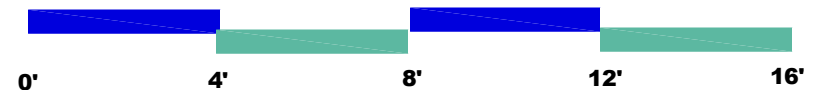
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	

		none		
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				

Provide privacy for confidential transactions



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



summary

space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future advising work space

location and relationships

location	main level
proximity	adjacent to advising offices
access	convenient access for students and faculty

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none

lighting

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

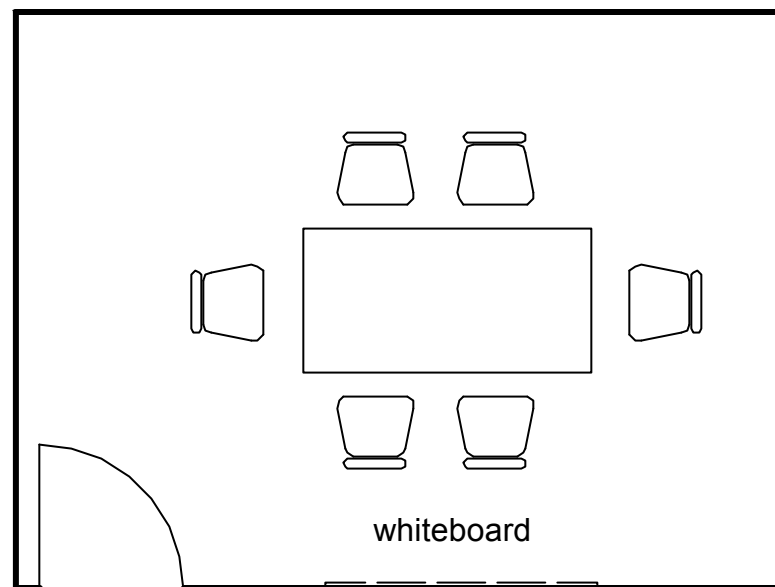
mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no

plumbing

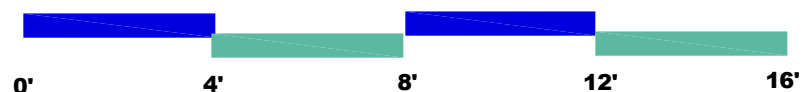
	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	library reading table			36" x 72"
6	side chair, armless, upholstered			20" x 20" approx.
equipment				
	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users' personal electronic items			
space notes				
Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.				



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

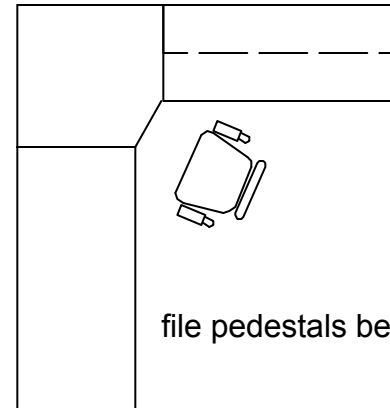


summary	
space type	open work station
net sf each space	80 sf
total of this type	4
assigned users	1
visitors	1-2
functions	professional work space
location and relationships	
location	main level
proximity	health sciences administration reception/clerical; advising staff
access	convenient access to work/copy and records areas; accessible to public, near major building entry
security	lockable workstation
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	computer work area
video/tv	none

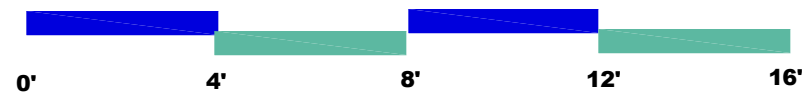
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	tack board / tack surface			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface, angled corner			24" x 30"
4	letter size file pedestals			15" x 29"
1	binder bin with lockable doors			12" x 60"
	work station coat hook, tack surface, keyboard drawer, task light			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
Admissions/advising clerical staff can be grouped with administration clerical staff and cross-trained to provide back-up.				

lockable binder bin above



file pedestals below



summary

space type	work/copy/ storage
net sf each space	150
total of this type	1
assigned users	0
visitors	administrative staff
functions	store program supplies and small equipment

location and relationships

location	main level
proximity	clerical staff
access	advisors, admission specialist
security	wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board static-free carpet or hard-surface flooring
--------------------	---

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

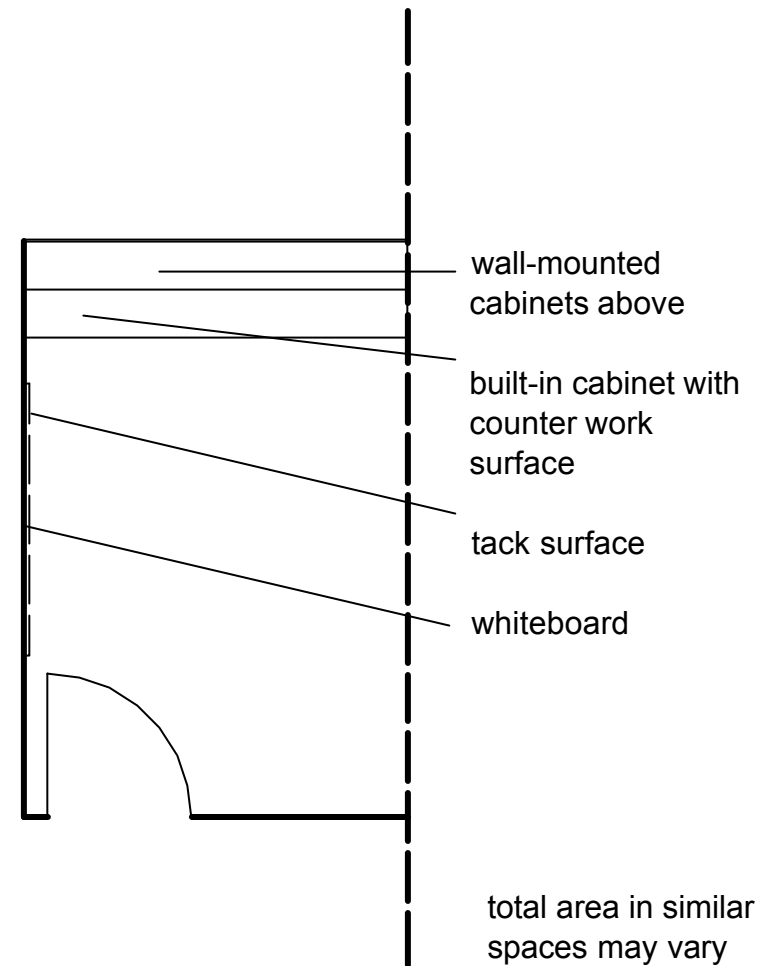
plumbing

	none
--	------

hazardous materials

	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
movable furnishings				
1	waste receptacle, large			
8	lateral file cabinets, 4 drawer letter			
equipment				
1	photocopier			
1	fax			
space notes				



**05 health sciences
admissions / advising**

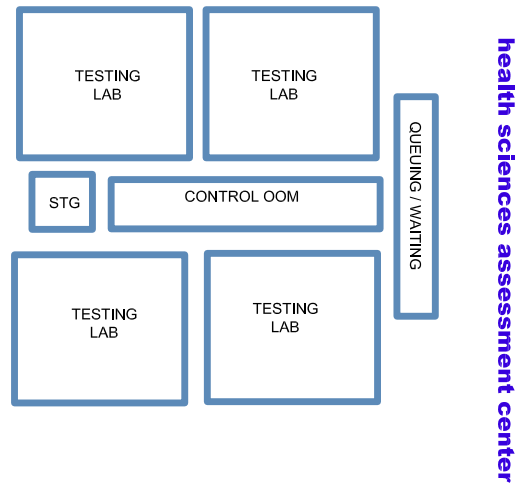
work/storage

slcc jordan campus health sciences center





#	space	user capacity	quantity	nsf each	total nsf	total unassign- able sf	total gsf
01	Testing Labs	50	4	1,000	4,000		4,000
02	Control Room(s)		1	400	400		400
03	Queuing and Waiting	100	1	500	500		500
04	Secure Test Storage		1	100	100		100
TOTALS					5,000		5,000



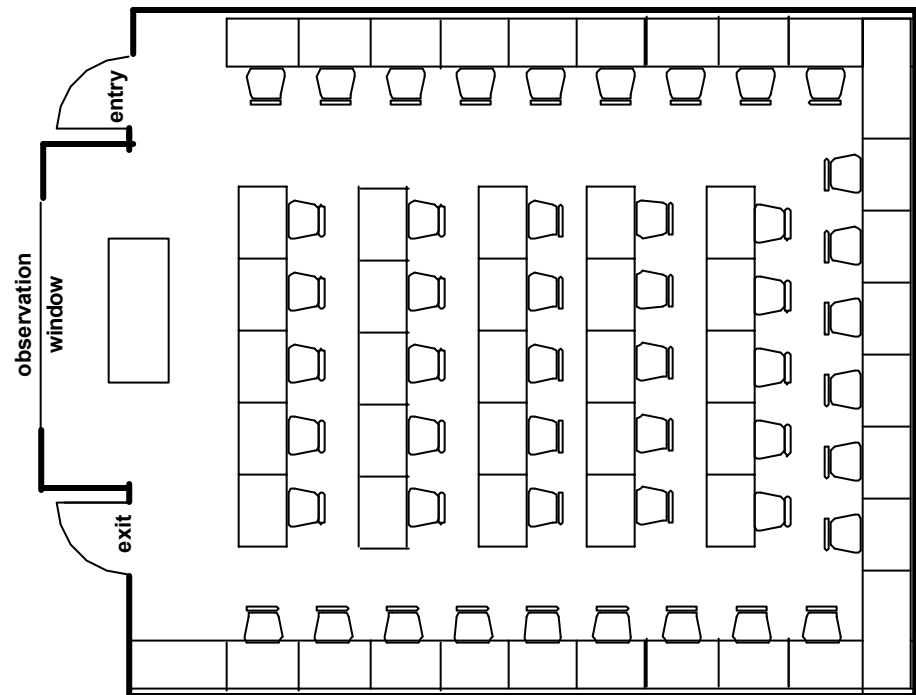
summary	
space type	instructional computer lab
net sf each space	1,000 sf
total of this type	4
assigned users	40 students
visitors	none
functions	computer testing can be used as instructional or open computer lab when not in use for assessment
location and relationships	
location	level 3
proximity	control room queuing and waiting area
access	may be shared when not in use for classes
security	department control of equipment and software
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	at each student station
video/tv	none

lighting	
natural light	Desirable. Provide adequate light control to prevent glare on screens if room has natural light.
light control for observation	75-200 fc in observation area, 8.75 to 25 fc control area, with overall ratio 8:1 or greater; controllable dimming; screen or panel to interrupt sight lines if simultaneous viewing will occur in opposing parallel windows
foot candles	10-15 at board surface 30 general; 75 -100 for test reading
fixture types	direct/indirect
controls	automatic sensor
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48" x 144"
	tack strips			
	tack boards			
	observation window from control area into lab, laminated glass (flat-surface mirror-finish glass 2nd surface lab side), all edges sealed and gasketed			
movable furnishings				
2	waste cans			
50	computer work tables			
50	work chairs, on casters, armless			
1	instructor/ proctor desk			
equipment				
50	desltop computers			
1	clock linked to campus master			
space notes				

All seats must be visible from control area. Ideally, tables would be separated so that students could not see adjacent screens. If adequate space is not available for physical separation, carrels might be used. Staff may also seat students so that those taking the same test do not occupy adjacent seats.

In existing testing centers at SLCC, students arrive and depart individually, not in class groups. If health sciences students use the facility in large groups or class units arriving at one time to take the same test, then additional staff work space, waiting area, and queuing space may be required.



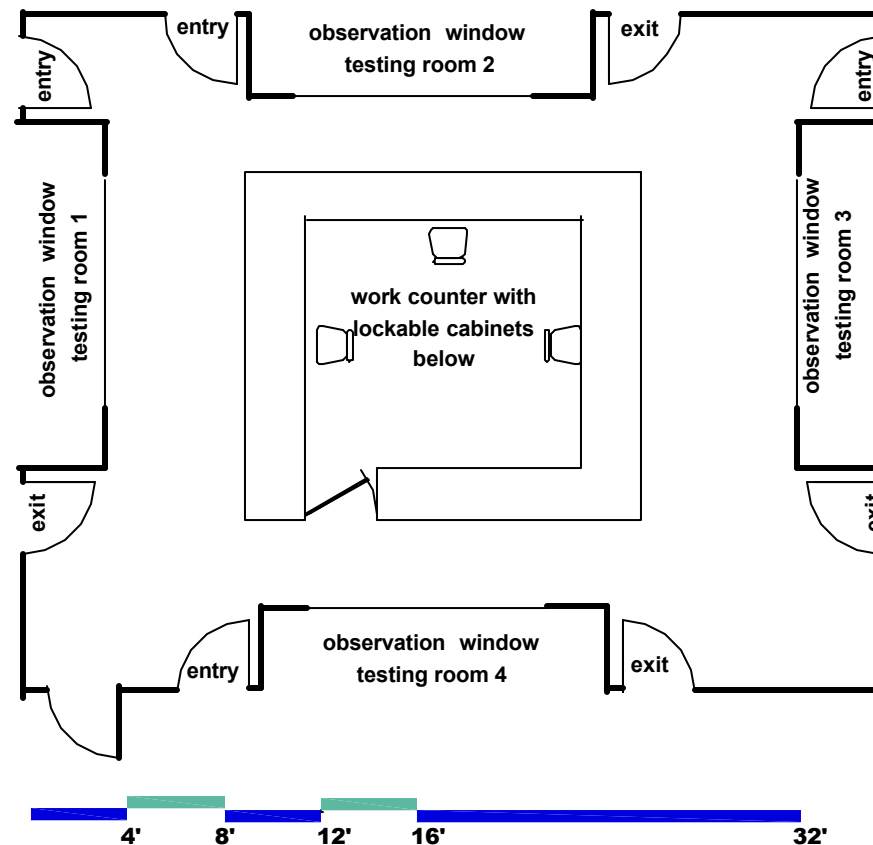
summary	
space type	instructional computer lab
net sf each space	400 sf
total of this type	space may be configured as one or more rooms as needed to provide visibility of all testing areas
assigned users	1-4 staff
functions	provide check-in, supervision, and results for classroom testing in either computerized or pencil-and-paper format
location and relationships	
location	level 3
proximity	queuing and waiting area opening onto testing labs, with observation windows into all lab areas
access	staff access to secure test storage
security	wireless keypad; locking secure storage for tests; staff areas must be lockable so that all materials can be controlled if testing labs are used as student computer labs at times when the testing center is not staffed
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at each work station
data	at each work station
video/tv	none

lighting	
natural light	not required; provide adequate light control to prevent glare on screens if room has natural light.
light control for observation	75-200 fc in observation area, 8.75 to 25 fc control area, with overall ratio 8:1 or greater; controllable dimming; screen or panel to interrupt sight lines if simultaneous viewing will occur in opposing parallel windows
foot candles	10-15 at board surface 30 general; 75 -100 for test reading
fixture types	direct/indirect
controls	automatic sensor
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48" x 144"
	tack boards			
1	observation window from control area into labs, laminated glass (flat-surface mirror-finish glass 2nd surface lab side), all edges sealed and gasketed			
1	service counter with work areas for check-in, test return, results, and general information			
1	wall-mounted calendar			
movable furnishings				
	file cabinets			
	shelf units			
4	work chairs, armless adjustable, on casters			
equipment				
4	desktop computers			
4	computer printers			
1	cash drawer			
1	clock linked to campus master			
space notes				

Testing staff need clear sight lines into all testing rooms. The configuration should be designed to allow operation with minimal staffing.

If health sciences students will arrive at the testing areas in large groups at any one time, additional queuing and waiting areas may be required.

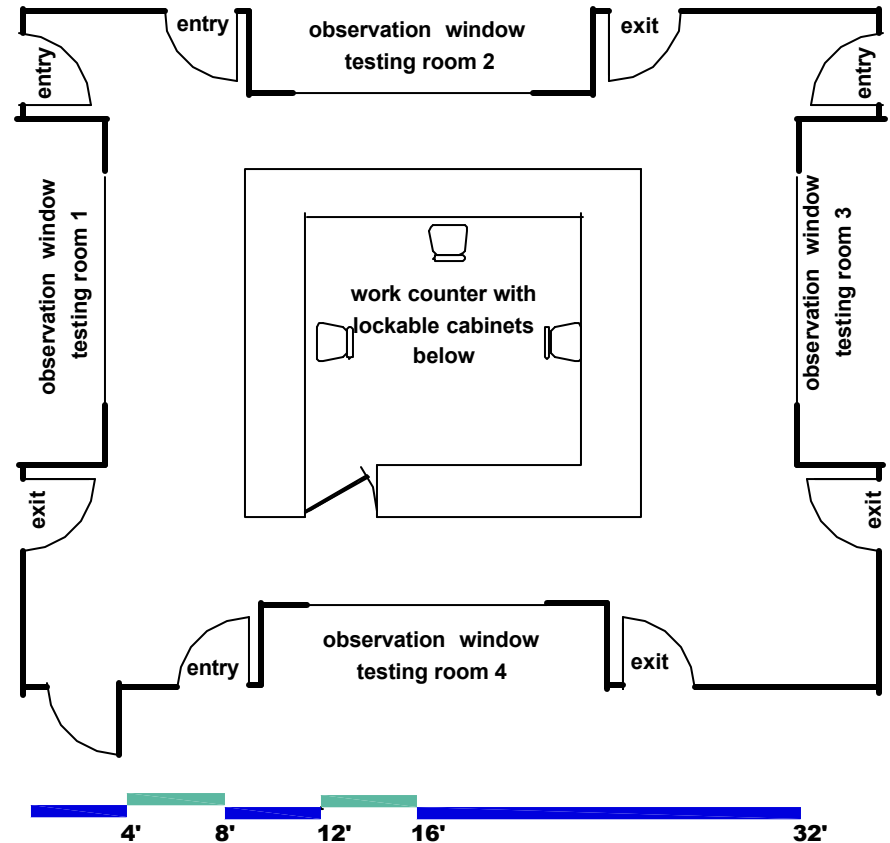


assessment control and queuing
areas with testing
room entries shown

summary	
space type	open waiting area
net sf each space	500 sf
total of this type	1
assigned users	100 students
functions	provide space for students assembling for testing or leaving testing and awaiting results
location and relationships	
location	level 3
proximity	control area opening onto testing labs
access	may combined with adjacent circulation or open study areas
security	adjacent staff areas must be lockable so that all materials can be controlled if testing labs are used as student computer labs at times when the testing center is not staffed
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for future
data	capacity for student laptops

video/tv	none
lighting	
natural light	desirable if it does not interfere with observation light ratios in control area
fixture types	direct/indirect
controls	automatic sensor
sound control	
stc	40-45
full sound walls	may require sound wall to reduce noise and disruption in testing rooms
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48" x 144"
	tack strips			
	tack boards			
movable furnishings				
equipment				
1	clock linked to campus master			
space notes				
See notes pages 413 and 415.				

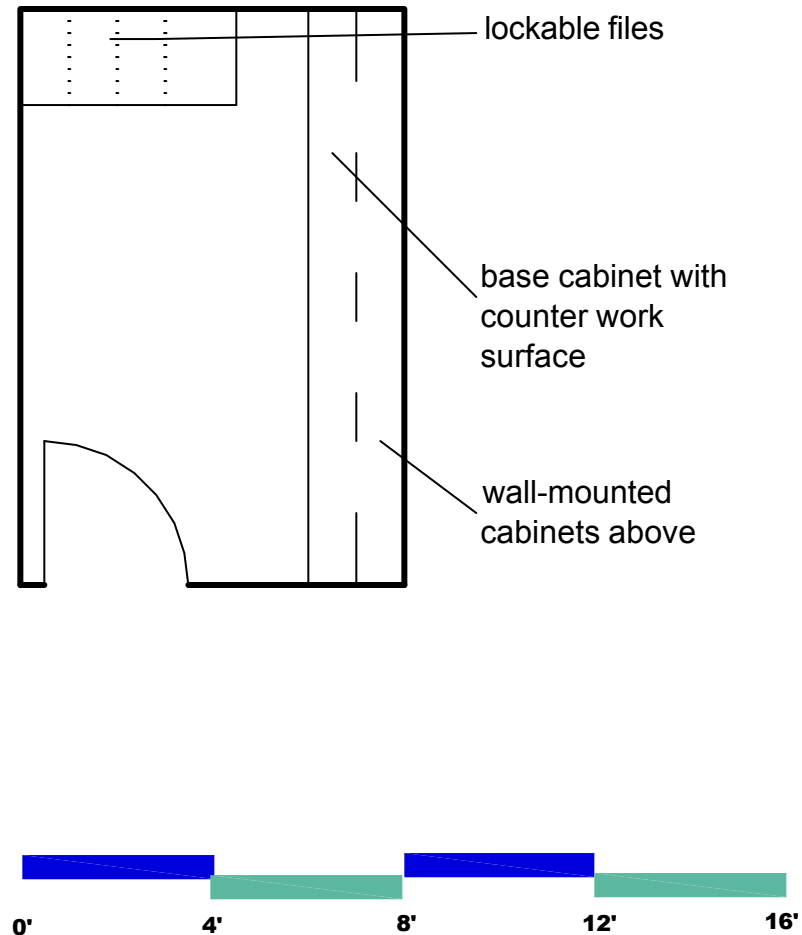


assessment control and queuing
areas with testing
room entries shown

summary	
space type	department storage
net sf each space	100
total of this type	1
assigned users	0
visitors	staff access only
functions	store tests and test forms
location and relationships	
location	level 3
proximity	opening off of control area, not visible to students
access	staff access only
security	wireless keypad; lockable cabinets and files; must be inaccessible if testing labs are used for instructional or student computer functions in hours when the control area is not staffed
finish see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for future use
data	capacity for future use

video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
movable furnishings				
1	waste receptacle			
equipment				
1	photocopier			
1	fax			
space notes				



04 health sciences assessment secure test storage
slcc jordan campus health sciences center



**student wellness /
community service center
slcc jordan campus health sciences center**

Salt Lake
Community
College

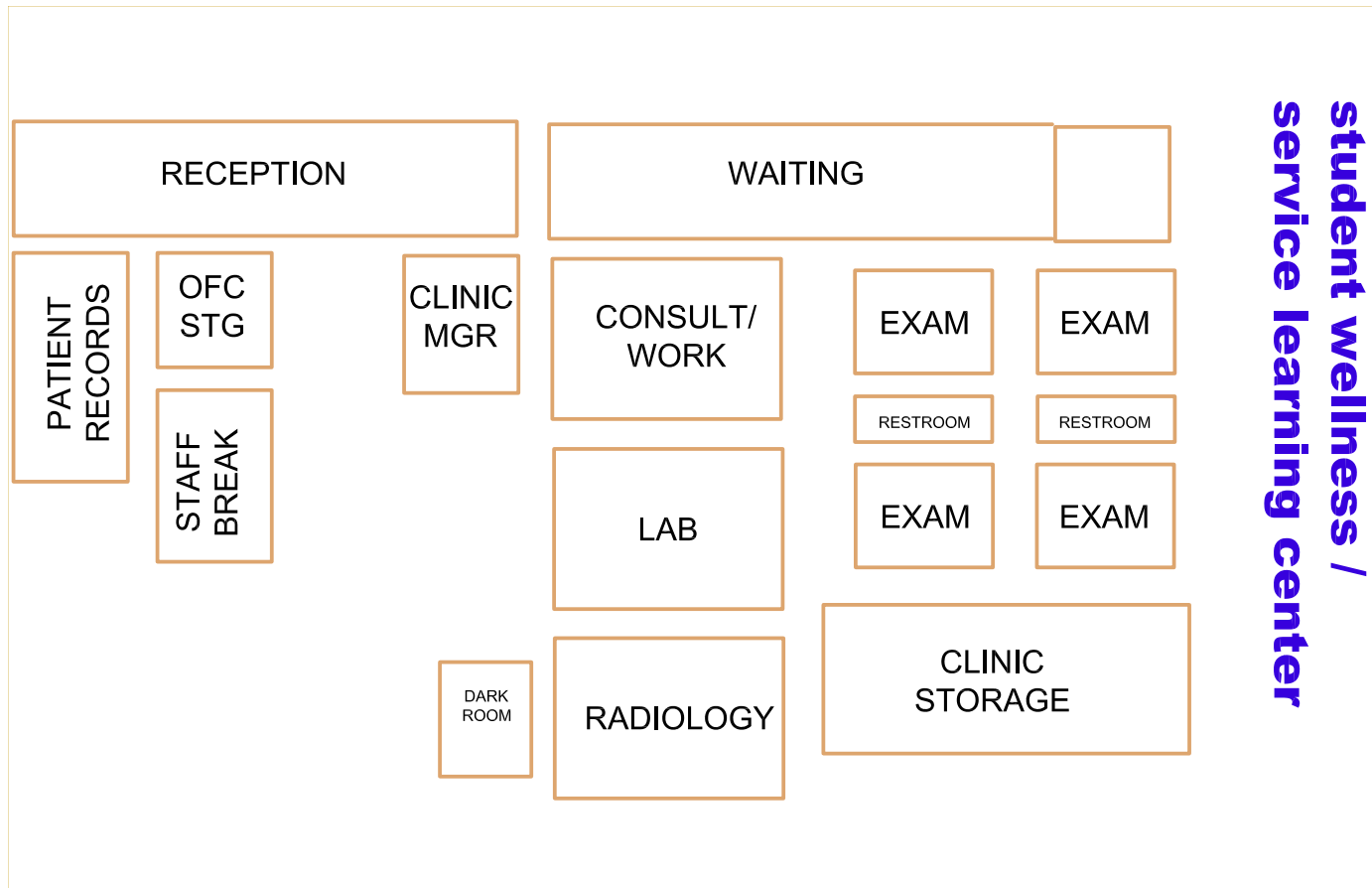


laura bayer architectural planning and programming / hfs architects DFCM #03047640

423

#	space	user capacity	quantity	nsf each	total nsf	total unassign- able sf	total gsf
01	Reception	6	1	320	320		320
02	Waiting	16	16	20	320		320
03	Children's Waiting		1	80	80		80
04	Exam Room		4	120	480		480
05	Accessible Unisex Restroom		2	65	130		130
06	Radiology		1	300	300		300
07	Laboratory		1	300	300		300
08	Dark Room		1	80	80		80
09	Consultation	12	1	300	300		300
10	Patient Records		1	200	200		200
11	Staff Restroom		1	65	65		65
12	Staff Break		1	120	120		120
13	Clinic Storage		1	400	400		400
14	Office Storage		1	100	100		100
15	Clinic Manager		1	125	125		125
16	Counseling Office		1	125	125		125
TOTALS					3,445		3,445

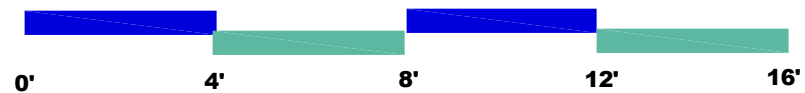
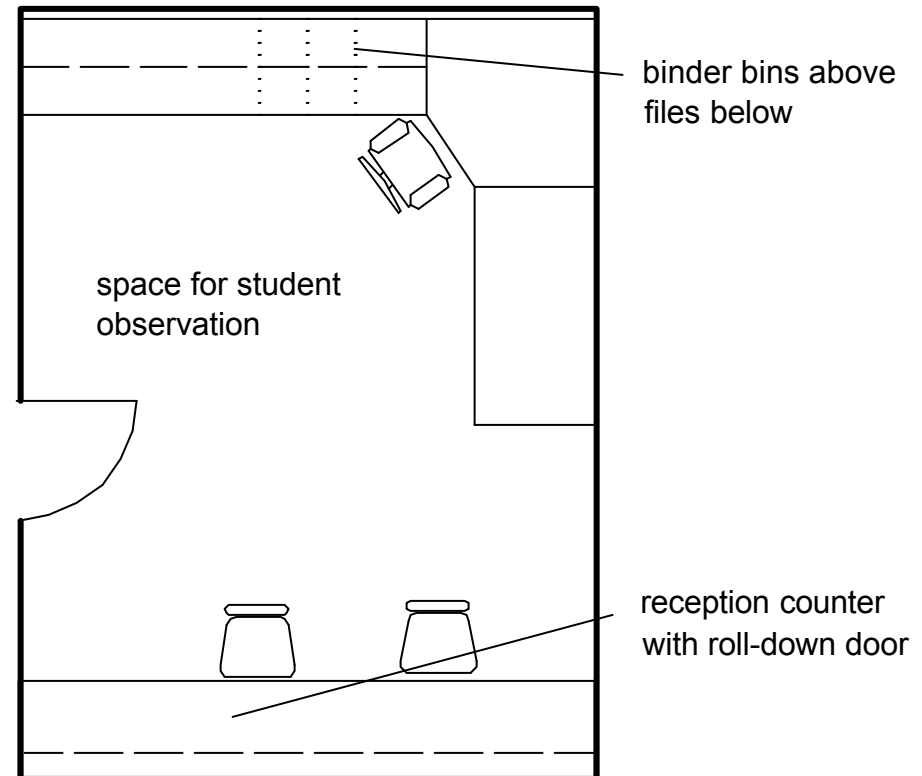
**student wellness /
service learning center**



summary	
space type	reception counter
net sf each space	320 sf
total of this type	1
assigned users	1-6 staff and student observers
visitors	1-16 patients
functions	check-in patients for the student wellness center; provide clinical experience for students
location and relationships	
location	main level
proximity	public location near to elevator adjacent to waiting area and patient records; proximate to exam rooms, consultation area, and labs
access	convenient access for patients
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	2 work stations
data	one computer and one printer at each work station
video/tv	none
lighting	

natural light	desirable; light control required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	possible at staff work areas
controls	auto sensor
sound control	
stc	40-45
full sound walls	Full sound walls not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

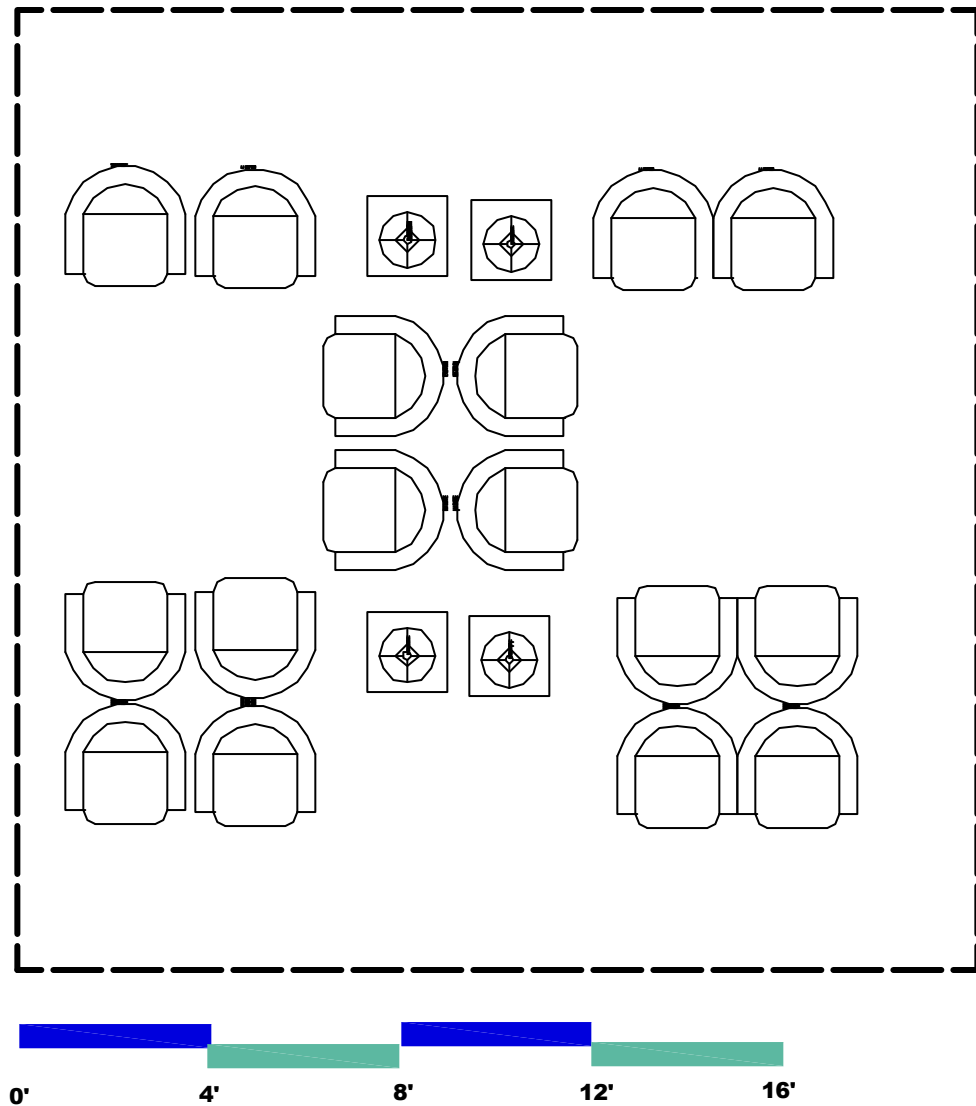
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	fully accessible built-in counter with patient writing surface on public side, work space on staff side			
movable furnishings				
2	waste can			
3	work chair, armless, on casters			
equipment				
3	desktop computers			
2	computer printers			
space notes				



summary	
space type	open waiting area
net sf each space	320 sf
total of this type	1
assigned users	none
visitors	16 patients and family members
functions	patient waiting area
location and relationships	
location	lower level
proximity	adjacent to clinic reception
access	convenient access to exam rooms and consultation areas
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line, internet access
data	capacity to support laptops
video/tv	none

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	information rack			
movable furnishings				
1	waste can			
16	side chairs, with arms			20" x 20" approx.
4	end tables			
equipment				
1-16	laptop computer			
4	table lamps			
space notes				



summary

space type	partially enclosed waiting area
net sf each space	80 sf
total of this type	1
assigned users	none
visitors	1-8 children
functions	provide an area with materials to entertain children waiting to be seen in the clinic

location and relationships

location	lower level
proximity	adjacent to clinic reception
access	convenient access to exam rooms and consultation areas
security	provide visibility to allow parents and staff to observe children in all parts of this area

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	one line, internet access
data	capacity to support laptops

video/tv	none
----------	------

lighting

natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

sound control

nc/rc	30
full sound walls	full enclosure not appropriate for visibility requirements, but noise control is desirable

mechanical

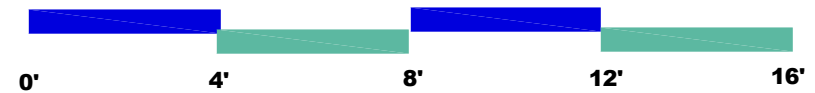
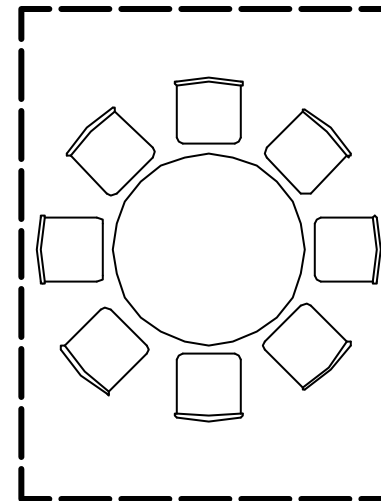
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	waste can			
	child-size table			
8	children's chairs			
equipment				
	capacity for computer			
	misc. toys and games			
space notes				

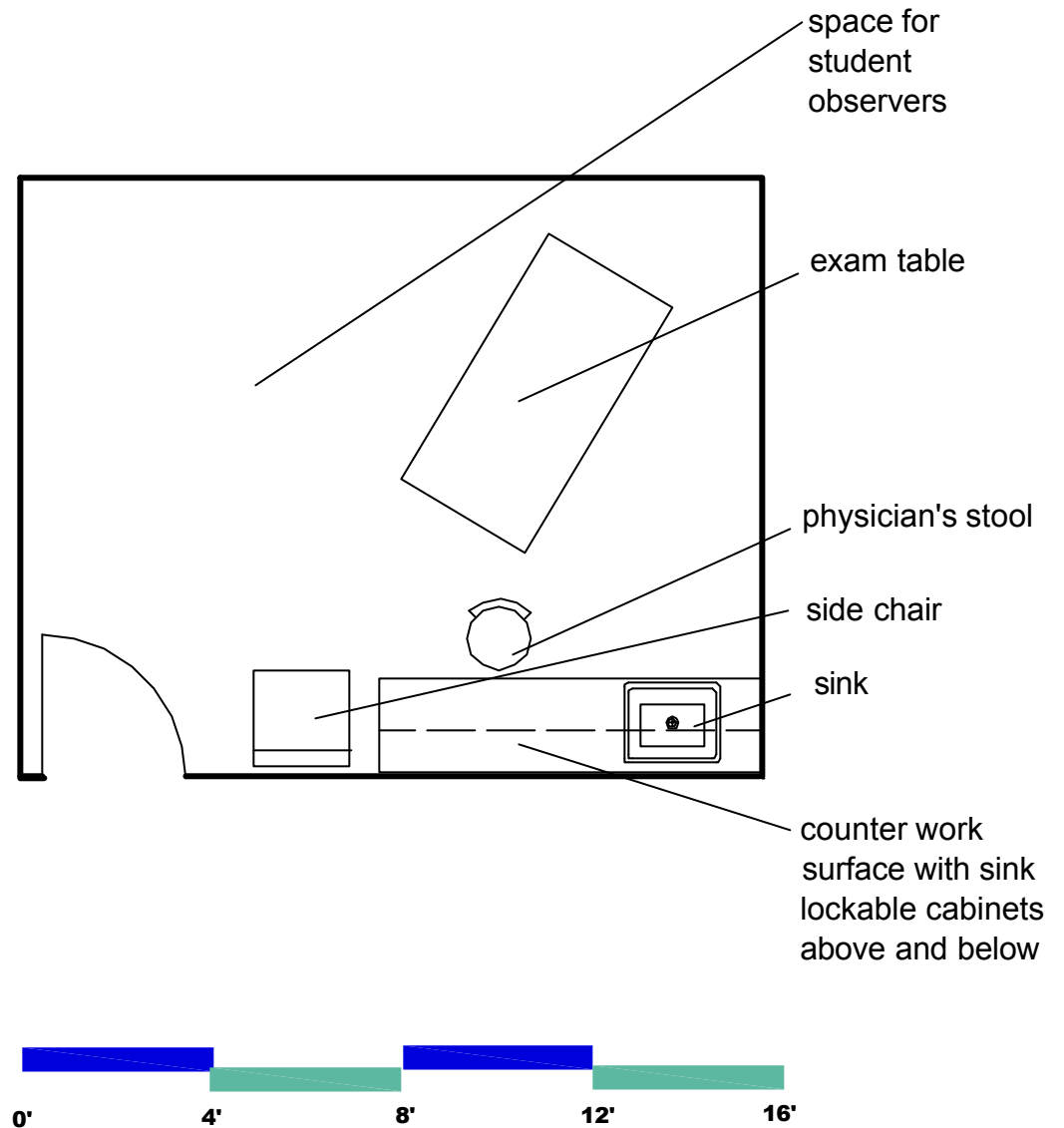
Design should address creative configuration of this space to provide an interesting environment for children, ensure visibility from waiting area and reception counter, and control noise.



summary	
space type	patient care area
net sf each space	120
total of this type	4
assigned users	0
visitors	4-5 health care professional, students, patient and family member
functions	wellness care; student experiential learning and skill development
location and relationships <small>see drawing, page</small>	
location	main level
proximity	exam rooms, accessible restrooms reception/ waiting, consultation
access	
security	
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall;
phone	Internet access
data	hook-ups for laptop
video/tv	none

lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination
task lights	portable examination light
controls	auto sensor
sound control	
stc	50-55
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	handwashing sink with hot and cold water
hazardous materials	
	biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard			48" x 144"
1	tack strip			
1	tack board			
1	wall-mounted cabinets with adj. shelves			14" x 48"
1	base cabinets with counter work surface and sink, drawers below			24" x 48"; 34" high
1	writing surface			30" high 24" x 36"
1	wall-mounted diagnostic instrument panel			
movable furnishings				
1	physician's stool, adj., on casters			
1	exam table with stirrups			27" x 54" plus pull out foot-rest
1	mobile exam light			
1	mayo stand			
1	biohazard disposal			
1	side chair, armless			20" x 20" approx.
equipment				
1-2	student laptops			
1	clock linked to campus master			
	blood pressure monitors			
space notes				



summary

space type	fully accessible unisex restroom
net sf each space	65 sf
total of this type	2
assigned users	none
visitors	1
functions	provide fully accessible restroom facilities for patients at wellness center

location and relationships

location	main level
proximity	between exam areas
access	convenient to waiting area

finish

see Jordan Campus Design Guidelines

materials & finish	no-slip tile painted gypsum board
--------------------	--------------------------------------

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting

natural light	not required
---------------	--------------

foot candles	30 general
fixture types	
task lights	no
controls	auto sensor

sound control

stc	45-50
full sound walls	not required

mechanical

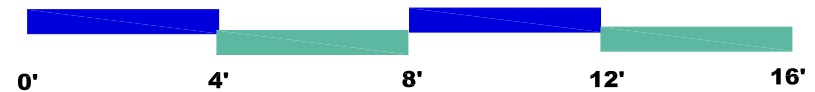
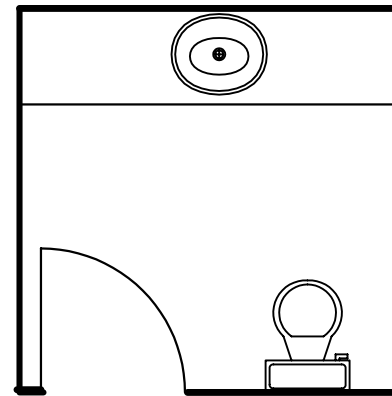
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	wc; lavatory; floor drain
--	---------------------------

qty per room	item	in contract		dimensions
		y	n	

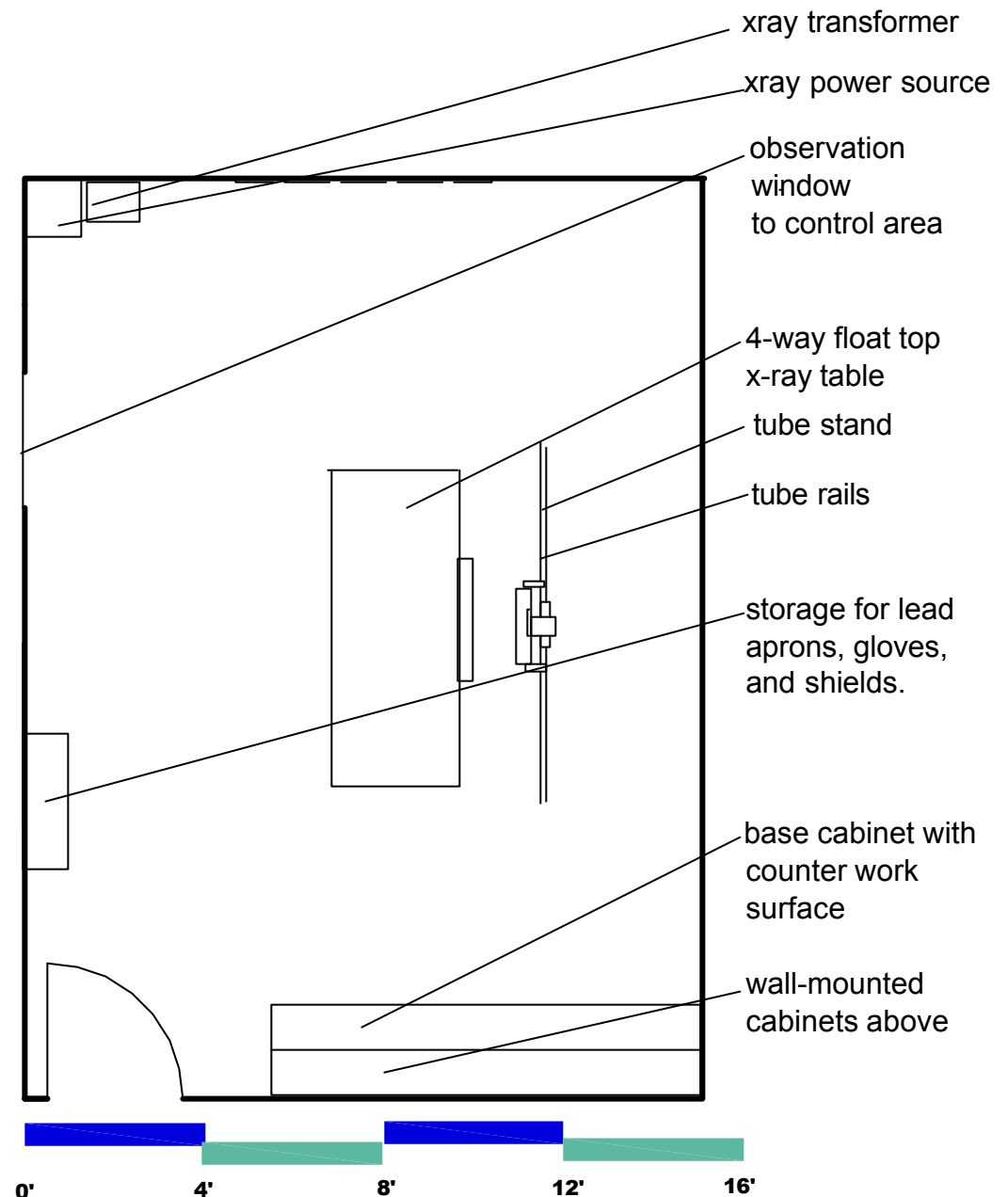
built-in fixtures				
1	lavatory with base cabinet			
1	wall-mounted mirror			
movable furnishings				
1	waste can			
equipment				
	capacity for patient personal equipment such as hair dryers			
space notes				



summary	
space type	x-ray room
net sf each space	300
total of this type	1
assigned users	none
visitors	1 patient, 1 health care professional, 1-2 students
functions	clinical care
location and relationships <small>see drawing, page</small>	
location	main level corner location desirable to minimize shielding requirements
proximity	exam rooms, laboratory, storage
access	convenient patient access
security	department control of equipment wireless keypad
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, vinyl tile
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall;
phone	Internet access
data	hook-ups for student laptops; capacity for CR network for image viewing
video/tv	none

lighting	
natural light	desirable with light control
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
x-ray requires lead shielding to protect adjacent occupied spaces on all sides, above, and below.	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	rack for portable x-ray shielding blankets			
1	wall-mounted cabinet with adj. shelves			
1	base cabinet with counter work surface			
movable furnishings				
1	waste can			14"
equipment				
1-2	student laptops			
1	clock linked to campus master			
1	tube, table, and bucky for 12 x 12 radiography area			
space notes				
Additional space required for student observation / participation in clinical process.				



summary

space type	wet lab area
net sf each space	300 sf
total of this type	1
assigned users	6 - 10 students at a time
visitors	visiting professionals
functions	allow students to complete a variety of laboratory analyses

location and relationships

location	main level
proximity	exam rooms, consultation area
access	convenient access for patients
security	department control of equipment and software

finish

see Jordan Campus Design Guidelines

materials & finish	hard-surface stain-resistant floor painted gypsum board
-------------------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	Internet access
data	one computer work station
video/tv	none

lighting

natural light	not required
foot candles	30 general; 100-150 for laboratory analysis
fixture types	
task lights	no
controls	automatic sensor

sound control

nc/rc	50
full sound walls	no

mechanical

outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no

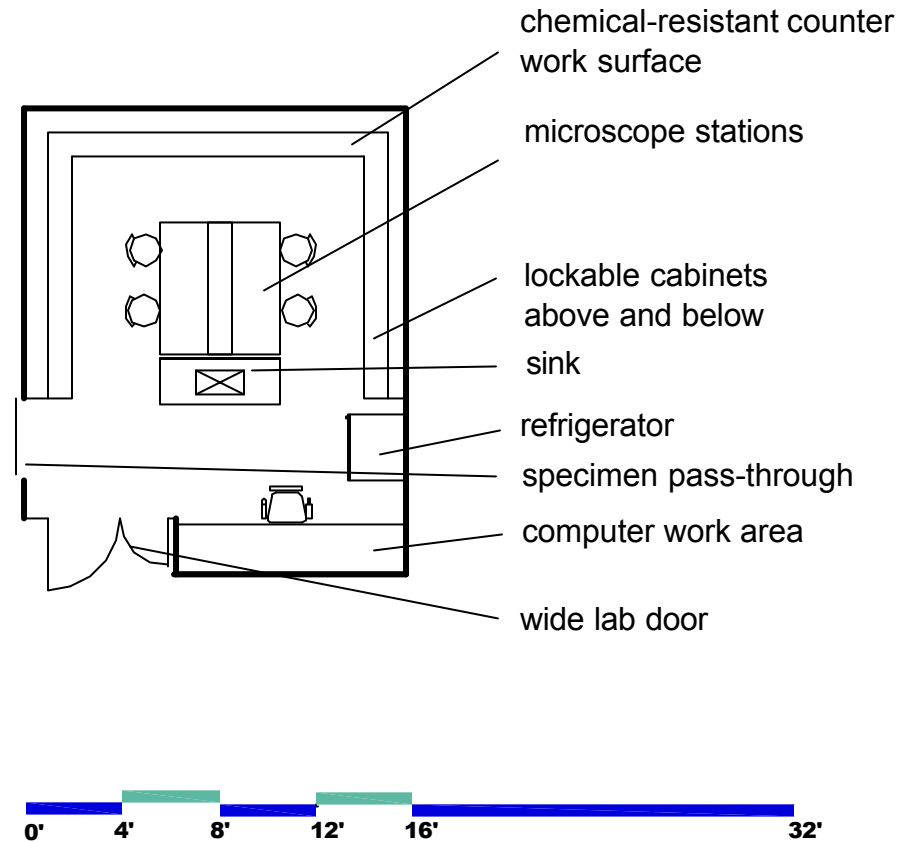
plumbing

sink with hot and cold water

hazardous materials

biohazard and sharps disposal

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
2	base cabinet with work counter and doublesink, drawers below			24" x 72"
2	wall-mounted cabinet with adj. shelving			12" x 72"
1	wall-mounted sharps container			
movable furnishings				
2	waste can			
1	biohazard disposal			
equipment				
1	desktop computer			
1	automated cell counter			
1	chem seralyser with printer			
1	full-size residential type refrigerator			
1	hemoglobinometer			
1	bacticerator			
1	nutator mixer			
5	hct centrifuges			
1	incubator			
5	urine centrifuges			
space notes				



summary

space type	darkroom
net sf each space	80
total of this type	1
assigned users	0
visitors	students and instructors
functions	store program supplies and small equipment

location and relationships

location	main level
proximity	wellness center radiology room
access	convenient staff access; may be used by other programs
security	department control of equipment

finish

see Jordan Campus Design Guidelines

materials & finish

painted gypsum board
chemical resistant hard-surface
flooring and counter tops
light-tight seals at all openings

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall.
phone	capacity for future use
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	safe light with separate switch; "in-use" light outside
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

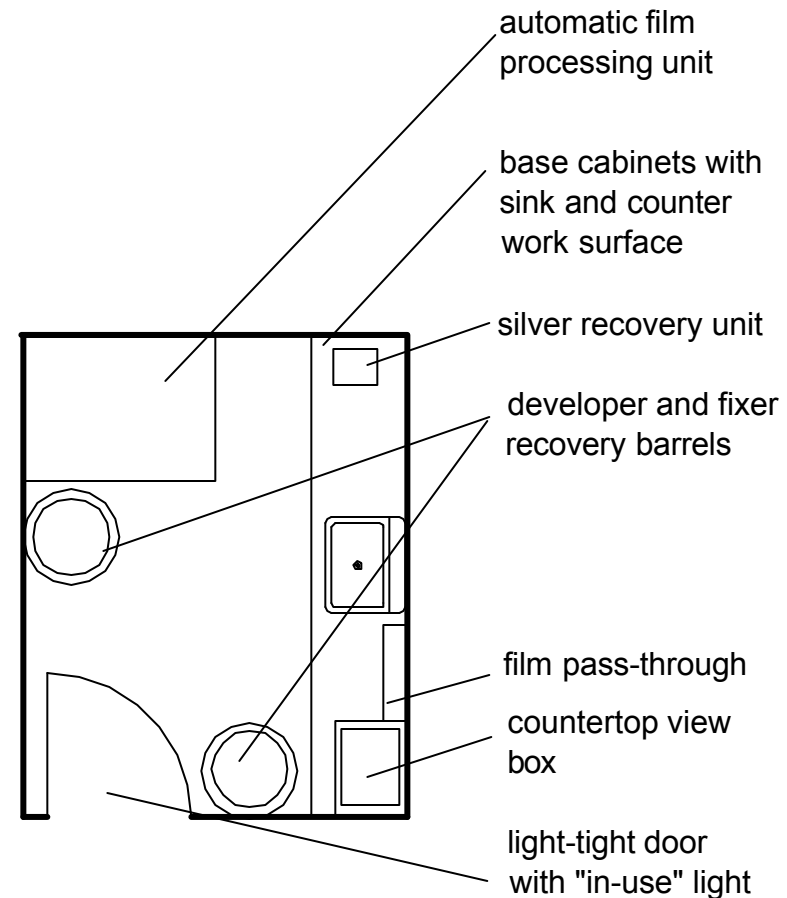
plumbing

	floor drain, acid-resistant piping, vacuum breaker on piping to tanks; deep sink
--	--

hazardous materials

	developer and fixer recovery provided and serviced by hazardous waste contractor
--	--

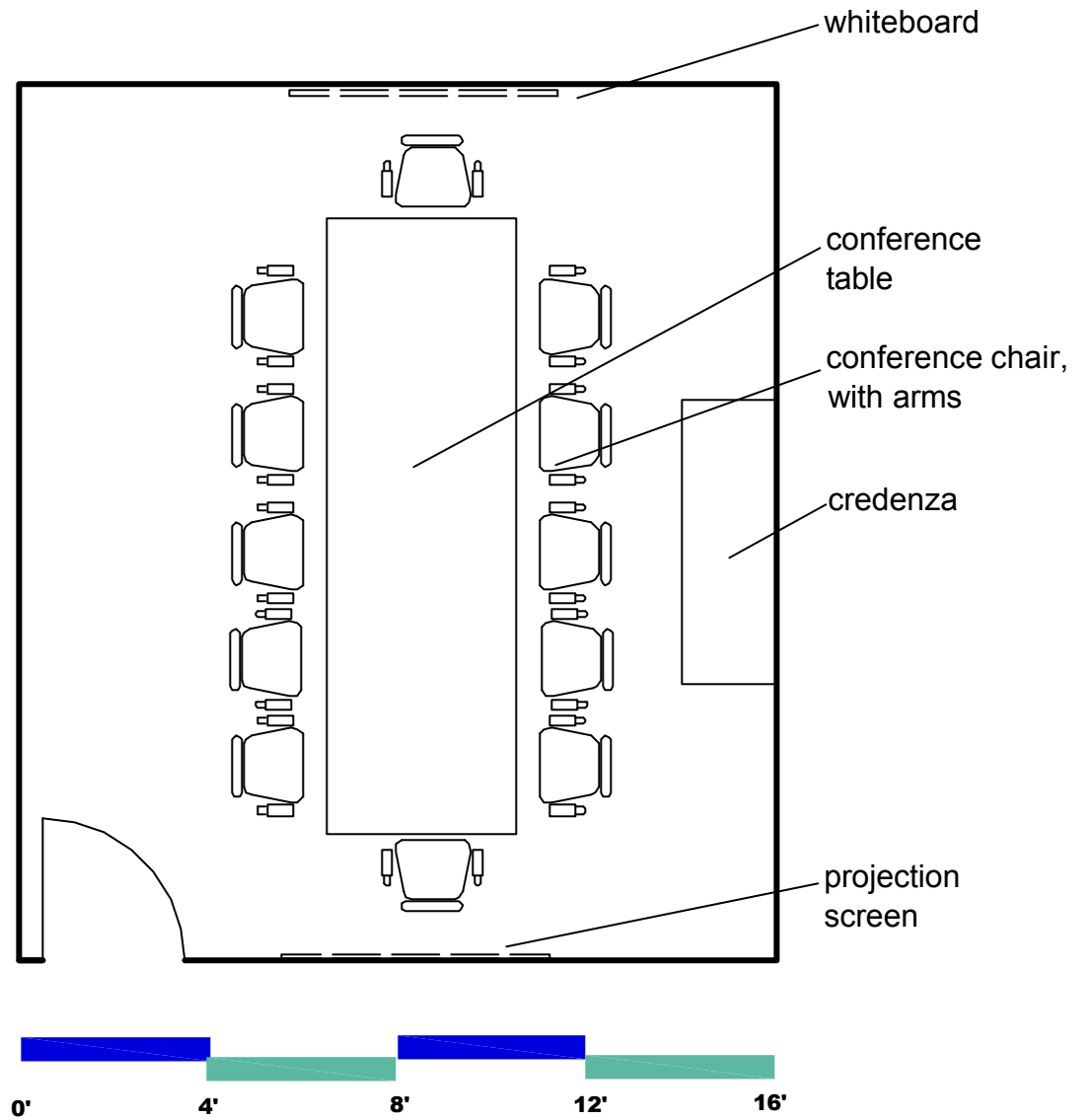
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
10 lf	open adjustable shelving			12" x 10'
1	film pass-through to radiology			
movable furnishings				
1	waste receptacle			
equipment				
	view boxes			18" x 24"
1	silver recovery unit			6" x 8" approx.
1	developer and fixer recovery barrels			24" diameter 48" high
1	automatic film processing unit			
1	light-proof metal film-storage bin			
	film drying racks			
space notes				



summary	
space type	enclosed conference room
net sf each space	300 sf
total of this type	1
assigned users	none
visitors	1 -12
functions	professional meeting space
location and relationships	
location	main level
proximity	reception and records
access	convenient access for both staff and patients
security	wireless keypad locking projector mount
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall; at ceiling for projection
phone	one line
data	capacity for laptops
video/tv	ceiling mounted projection video coax RG 59, S video cable RS 32, IR control, 2 VGA cables

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	12-person conference table			
12	conference chairs, armless, on casters			
1	credenza			
equipment				
12	laptops			
1	VCR			
1-2	DVD player			
1	document camera			
1	switching system			
	audio speakers			
	capacity for smart board			
space notes				
This space will permit interdisciplinary conferences focused on treatment approaches and will give student trainees a sense of the role of teams in health care.				



summary

space type	enclosed secure records room
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	staff access only
functions	store patient records provide clinical experience for students

location and relationships

location	main level
proximity	opening off of reception work area
access	adjacent to professional consultation area

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
security	wireless keypad

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	capacity for future use
video/tv	none

lighting

natural light	not required
foot candles	30 general; 75 - 100 for reading tasks
fixture types	
task lights	possible at staff work areas
controls	auto sensor

sound control

stc	40-45
full sound walls	Full sound walls not required

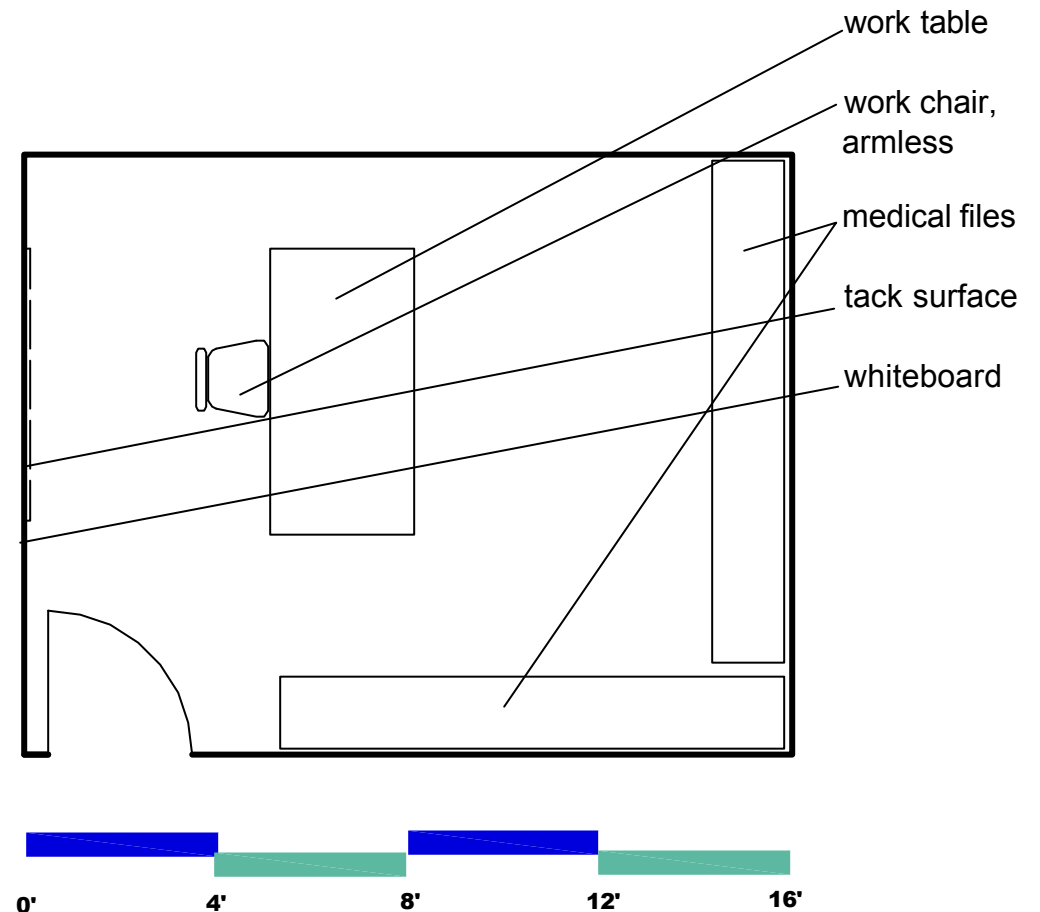
mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no

plumbing

	none
--	------

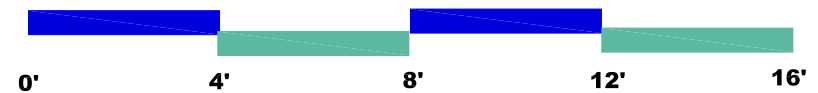
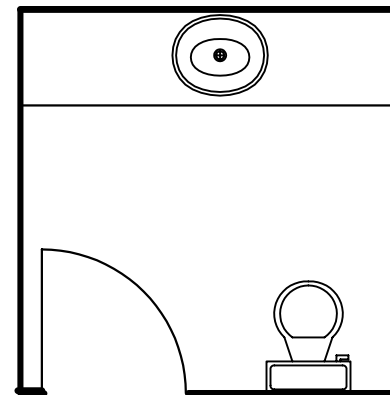
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	waste can			
1	work chair, armless, on casters			
	medical records shelving			
1	folding work table			36 x 72
equipment				
	capacity for laptop use			
space notes				
Should include space for students to observe and practice filing of medical records.				



summary	
space type	fully accessible unisex restroom
net sf each space	65 sf
total of this type	1
assigned users	none
visitors	1
functions	provide fully accessible restroom facilities for patients at wellness center
location and relationships	
location	main level
proximity	staff work and break areas
access	convenient to waiting area
finish	see Jordan Campus Design Guidelines
materials & finish	no-slip tile painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none
lighting	
natural light	not required

foot candles	30 general
fixture types	
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	wc; lavatory; floor drain

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	lavatory with base cabinet			
1	wall-mounted mirror			
movable furnishings				
1	waste can			
equipment				
	capacity for personal equipment such as hair dryers			
space notes				



summary

space type	staff break
net sf each space	120
total of this type	1
assigned users	0
visitors	administrative staff
functions	provide a break area for staff

location and relationships

location	main level
proximity	work/copy / storage
access	convenient access for staff; separated from public areas
security	wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	painted gypsum board static-free carpet or hard-surface flooring
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use
video/tv	not required

lighting

natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor

sound control

stc	30
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

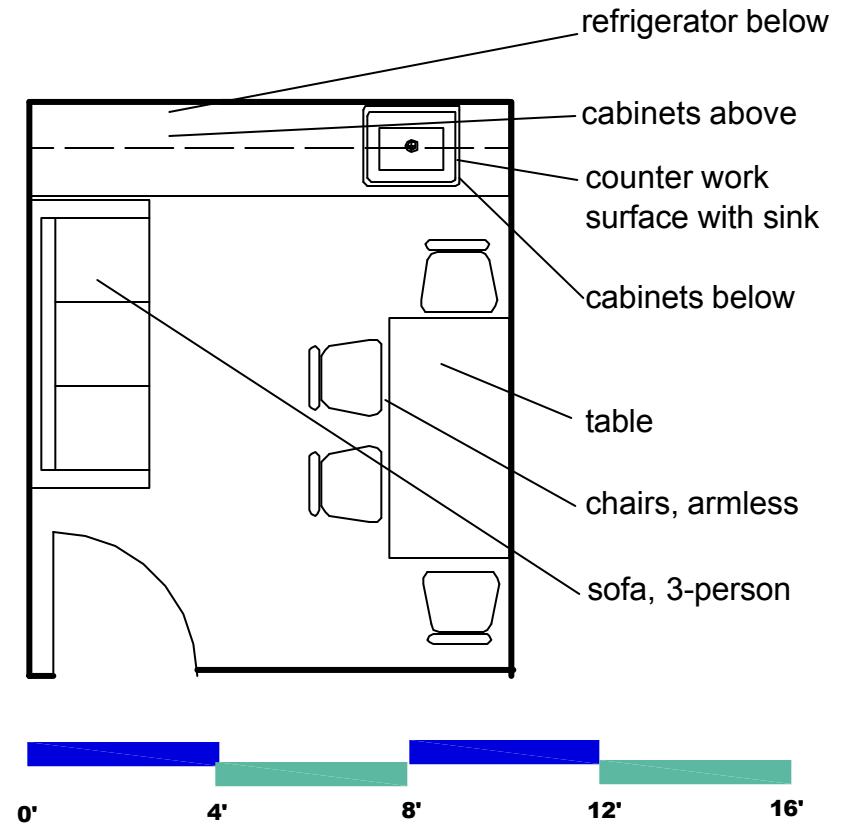
plumbing

	hot and cold water, sink
--	--------------------------

hazardous materials

	none
--	------

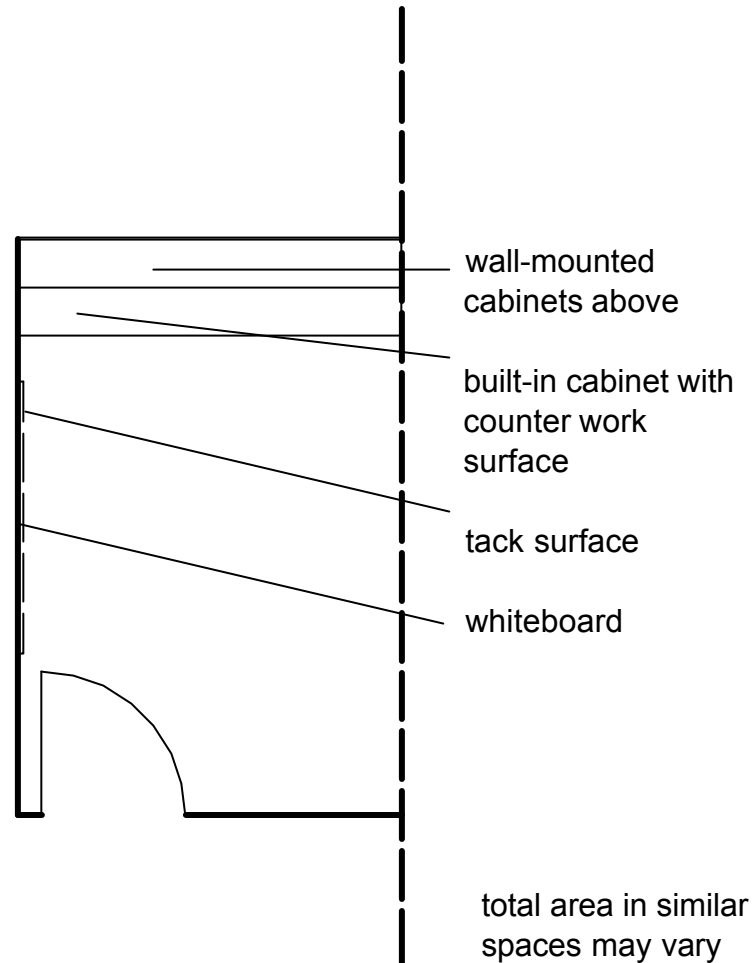
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface and sink, adjustable shelving belwo			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
movable furnishings				
1	table			30" x 72"
4	side chairs, armless, upholstered			20" x 20" approx.
1	waste receptacle, large			
equipment				
1	undercounter refrigerator			
1	microwave			
space notes				



summary	
space type	storage
net sf each space	400
total of this type	1
assigned users	0
visitors	administrative staff
functions	store materials and supplies for use in the wellness center
location and relationships	
location	main level
proximity	building entry, elevator, clerical staff
access	program heads
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	painted gypsum board hard-surface flooring
electrical	plus capacity for equipment listed below
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity
data	capacity for alternate future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink
hazardous materials	
	none

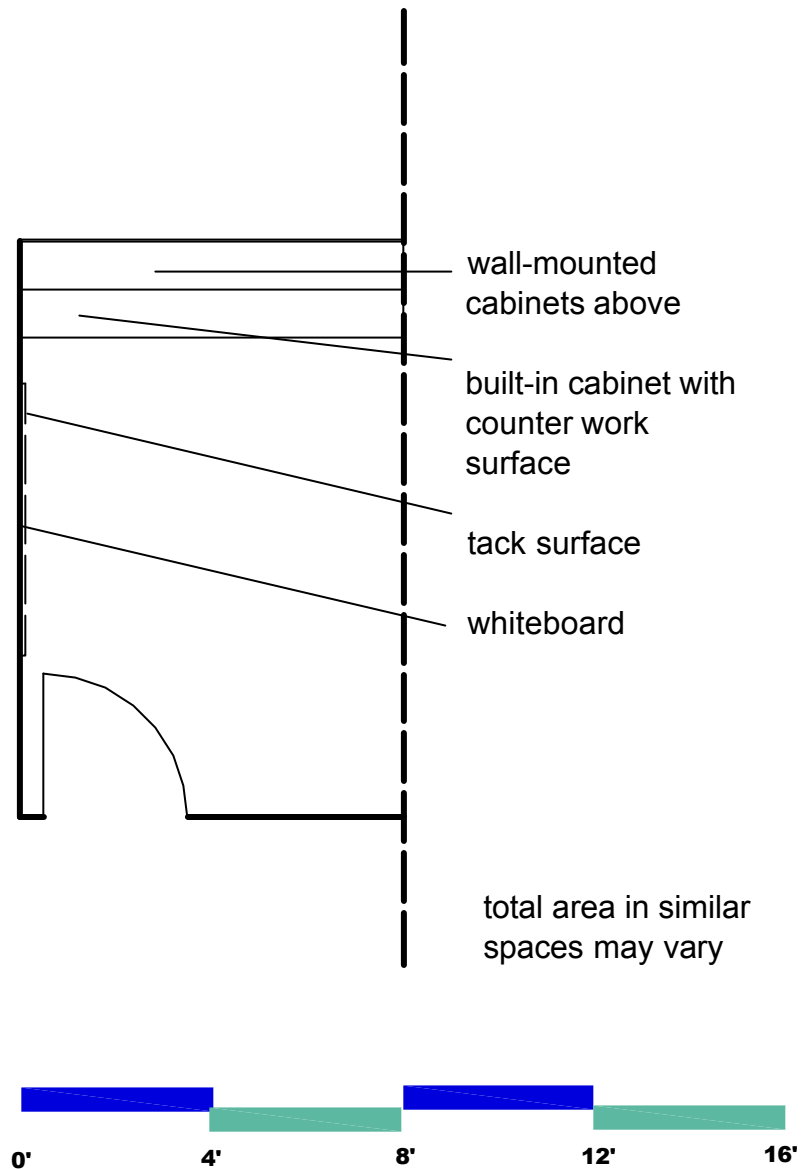
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	wall-mounted cabinets w/ adjustable shelves			12” x 10 ‘
	base cabinet with counter work surface and sink			
movable furnishings				
1	wastse receptacle			
4	metal shelf units, 7 shelves			12” x 36”
equipment				
space notes				



summary	
space type	storage
net sf each space	100
total of this type	1
assigned users	0
visitors	administrative staff
functions	store office supplies for use in the wellness center
location and relationships	
location	main level
proximity	building entry, elevator, clerical staff
access	program heads
security	wireless keypad
finish	see Jordan Campus Design Guidelines
materials & finish	painted gypsum board hard-surface flooring
electrical	plus capacity for equipment listed below
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity
data	capacity for alternate future use
video/tv	not required

lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	wall-mounted cabinets w/ adjustable shelves			12” x 10 ‘
	base cabinet with counter work surface and sink			
movable furnishings				
1	wastse receptacle			
equipment				
space notes				



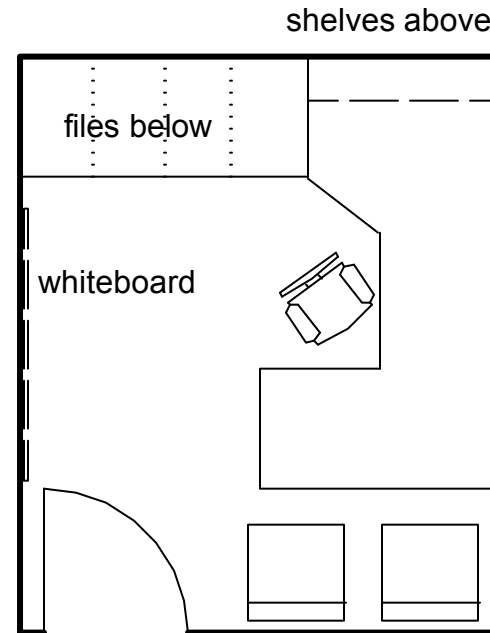
summary	
space type	enclosed private office
net sf each space	125 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

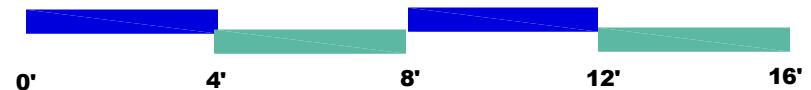
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).

Provide privacy for confidential transactions



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.

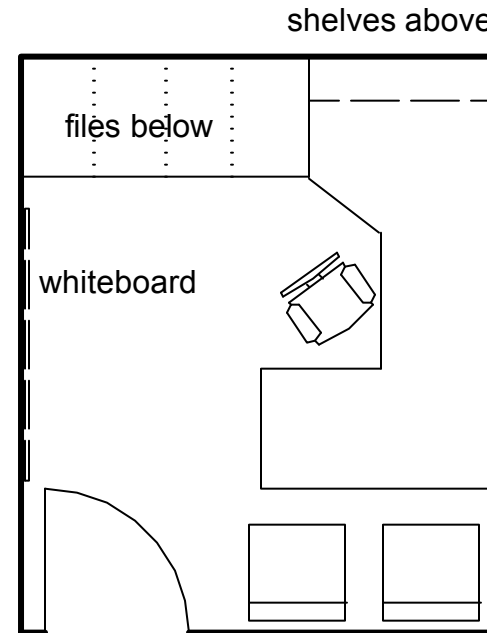


summary	
space type	enclosed private office
net sf each space	125 sf
total of this type	1
assigned users	1
visitors	1-2
functions	professional work space with privacy for counseling
location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at desk
data	computer work area
video/tv	none

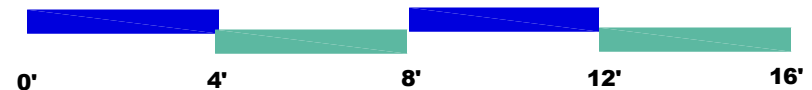
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				

Provide privacy for confidential transactions



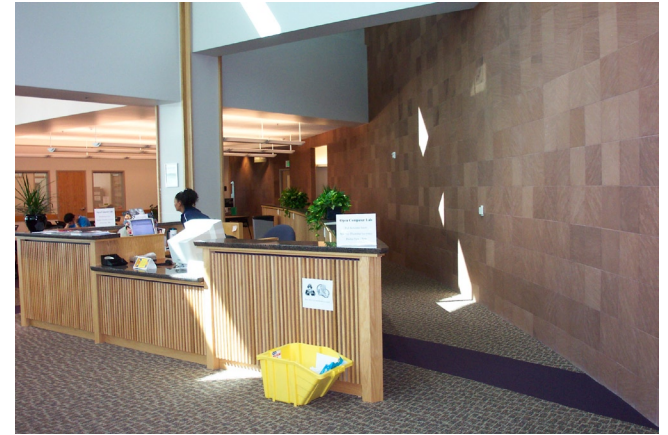
Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



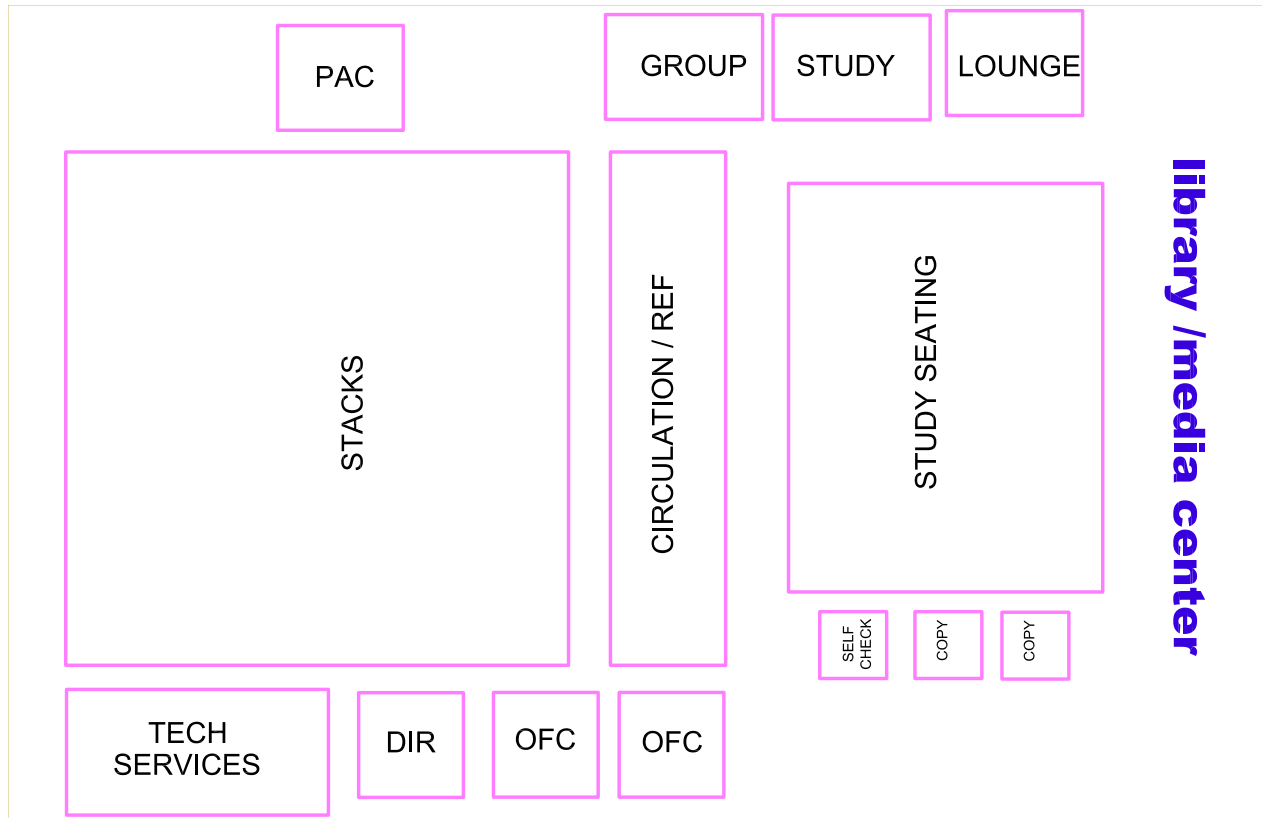
**16 student wellness / community
service center**
slcc jordan campus health sciences center
**counseling
office**



library / media center
slcc jordan campus health sciences center



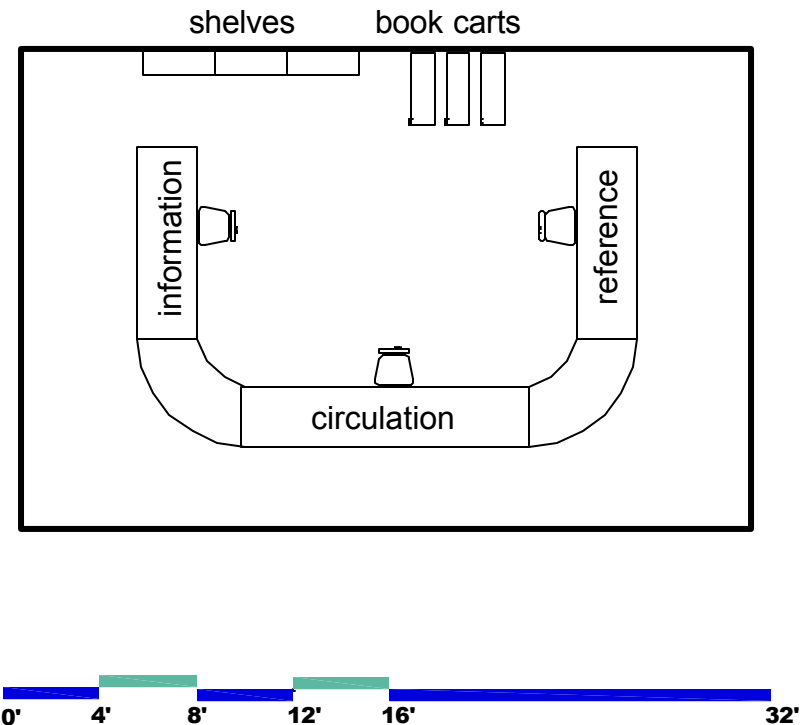
#	space	user capacity	quantity	nsf each	total nsf	total unassign- able sf	total gsf
01	Circulation / Reference / Information Desk	3	1	600	600		600
02	Secure Shelving	1	1	10	10		10
03	Health Sciences Model Storage		1	200	200		200
04	Stacks		1	2,500	2,500		2,500
05	Group Study Room	6	2	150	300		300
06	Study Seating	48	48	25	1,200		1,200
07	Lounge Seating / Current Periodicals	8	8	25	200		200
08	Public Copiers	2	2	50	100		100
09	Public Access Computers	5	5	30	150		150
10	Librarian Office	1	1	100	100		100
11	Staff Office	2	2	100	200		200
12	Technical Services		1	300	300		300
13	Self Check-out		1	50	50		50
TOTALS					5,910		5,910



summary	
space type	open information counter and shelving
net sf each space	600
total of this type	1
assigned users	1 - 3 library staff
visitors	library patrons
functions	handle check-in and check-out of library materials and provide information for patrons
location and relationships <small>see drawing, page</small>	
location	main level
proximity	open student computer stations, student lound/study areas
access	visible location near a major building entry
security	relocate existing 3M library security gates from High Tech Center
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; power for security gates
phone	at each work station
data	at each work station

video/tv	capacity
lighting	
natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect general illumination
task lights	at workstations
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

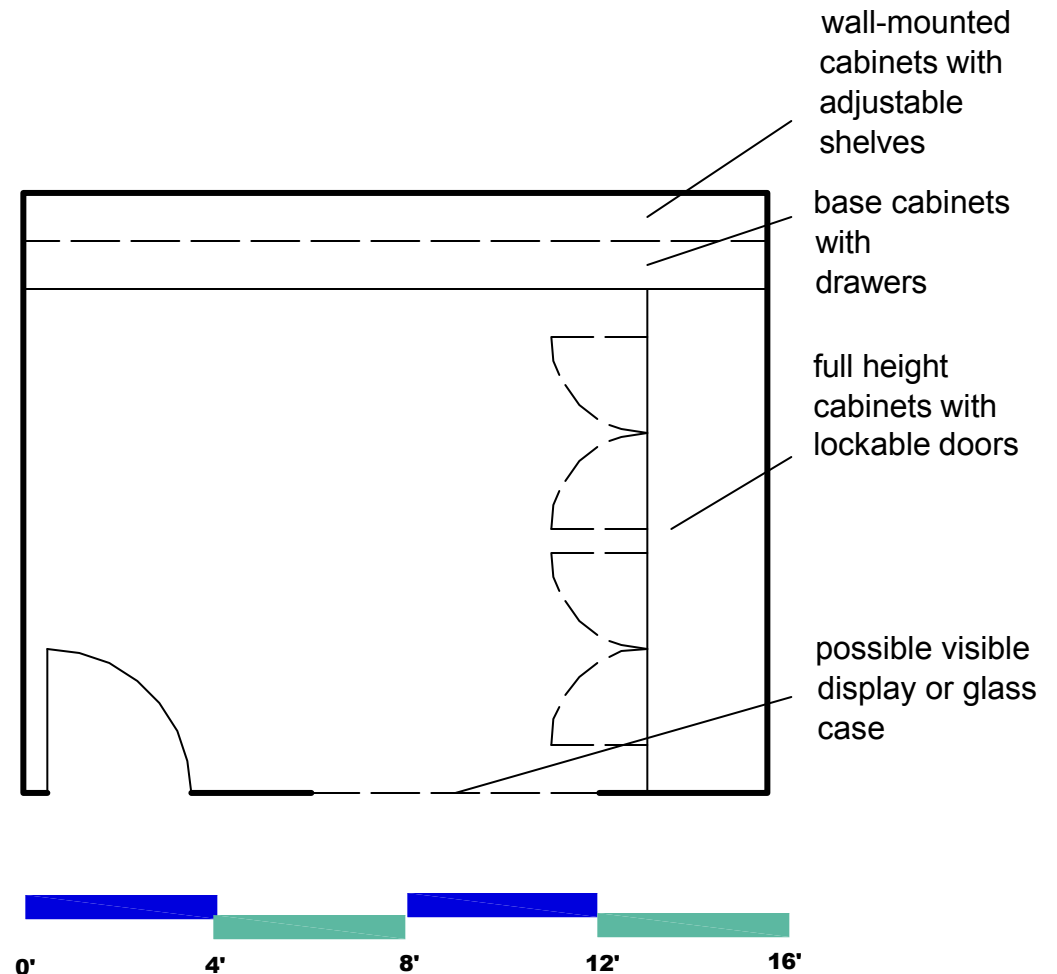
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
15 lf	library desk, with accessible patron counter and staff work counter			
1	tack board			
movable furnishings				
3	work chair, armless, on casters			
5	library shelf units, 7 shelves			
equipment				
1	clock linked to campus master			
1	cash register			
3	book trucks			
3	desktop computers			
3	computer printers			
space notes				
This desk will provide the central control point for the library area. At peak 3 staff will work in the work area; they will require room for processing tasks. Shelves should accommodate materials on hold, reserve materials, and locked case or limited circulation items. The desk should provide for book returns.				



summary	
space type	storage area
net sf each space	200
total of this type	1
assigned users	none
visitors	staff access only
functions	provide storage and, if design permits, display, for models used in health sciences programs
location and relationships <small>see drawing, page</small>	
location	main level
proximity	adjacent to circulation desk
access	visible location desirable
security	locking cases or cabinets
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; power for security gates
phone	capacity for future use
data	capacity for future use
video/tv	capacity
lighting	

natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect general illumination
task lights	display lighting may be desirable if models are visible
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	lockable wall-mounted cabinets to accommodate full-height models			
	lockable wall-mounted cabinets with adj. shelving			
	wall-mounted cabinets with lockable drawers			
1	tack board			
movable furnishings				
	models ranging in size up to full-size mannikins and skeletons			
	anatomical charts and other display materials			
space notes				
<p>The library will house its existing collection of health-sciences related models plus additional materials now kept in individual department storage areas. A visible storage area, which allowed students to see these materials even when the library is closed, would be desirable. Display of part of this collection offers an opportunity to establish building identity as well as providing convenience to students who may want to refer to these materials after hours.</p> <p>Most materials will be available for use in the library only; they will not circulate.</p>				



summary	
space type	open space
net sf each space	2,500
total of this type	1
assigned users	none
visitors	open access
functions	house library collection of print materials and accommodate future collection growth
location and relationships <small>see drawing, page</small>	
location	main level
proximity	visible from circulation desk
access	visible location desirable
security	relocate existing 3M security system from High Tech Center; if additional exists are required, provide alarmed, time-delay hardware
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; power for security gates
phone	capacity for future use
data	capacity for future use
video/tv	capacity

lighting	
natural light	desirable with light control for a/v
foot candles	30 general; 75 for reading tasks 30 at bottom shelf of stacks
fixture types	direct/indirect general illumination
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

--	--	--	--	--

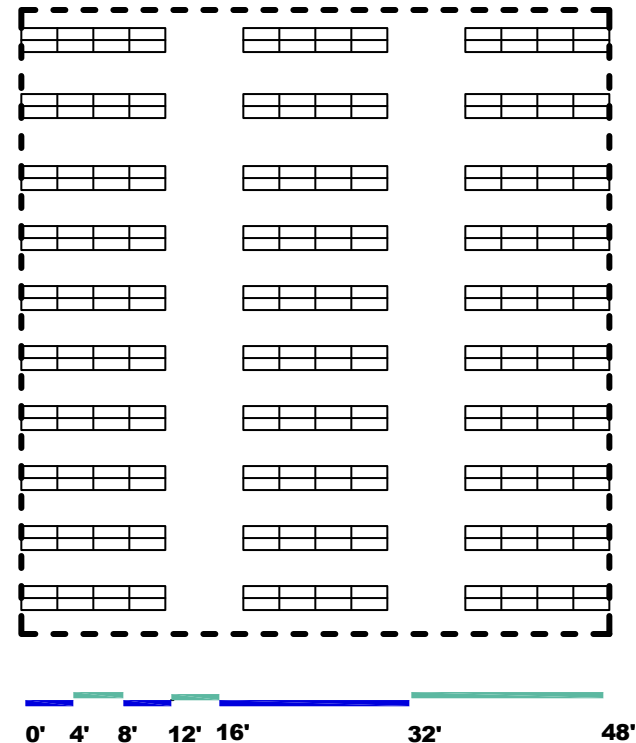
movable furnishings

capacity for 360 single-faced 3-foot shelf units	steel library shelving, single faced, with end pieces, seismic bracing, and shelf dividers			10" x 36"; 90" high; 18" clearance from sprinklers
	periodical display shelving, w/ hinged slanted display shelf in front of flat storage shelves			12" x 36", 90" high
	newspaper rack			32" x 36", 42" high
	steel reference shelving with counter surface, end pieces, and shelf dividers			42" high
	atlas case			
	flat file			

equipment

space notes

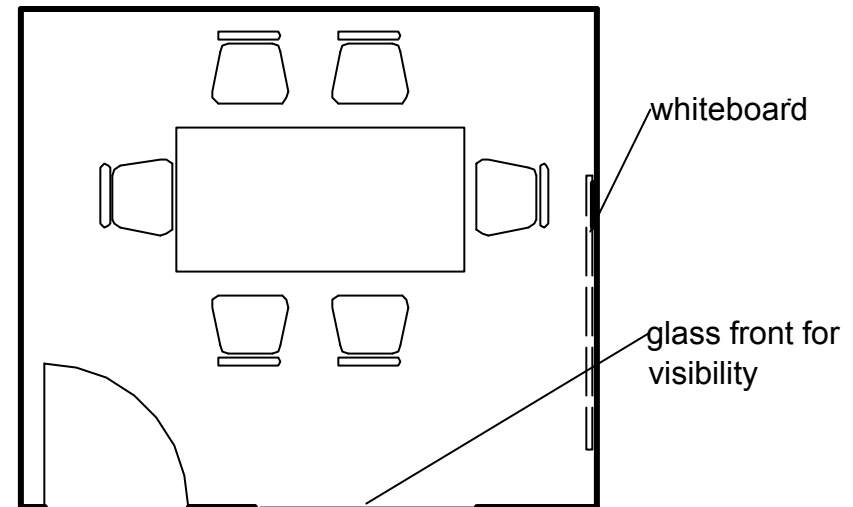
Relocate existing library shelving and cases from High Tech Center. Provide additional units to match existing library furniture as needed.



summary	
space type	enclosed conference room
net sf each space	150 sf
total of this type	2
assigned users	none
visitors	1 -6
functions	provide space for student groups to work and study
location and relationships	
location	main level
proximity	stack area visible from circulation desk
access	could be available for after-hours use if location did not compromise security of library materials
security	lock not required
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board glazing to allow visibility
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	capacity
data	capacity for laptops
video/tv	capacity

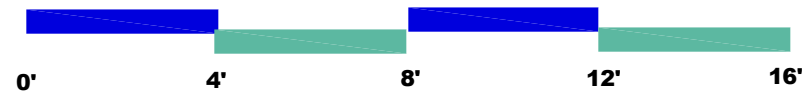
lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	6-person conference table			
6	conference chairs, armless, on casters			
equipment				
6	laptops			
space notes				



Provide a space that can easily be converted to 2 faculty offices in the future.

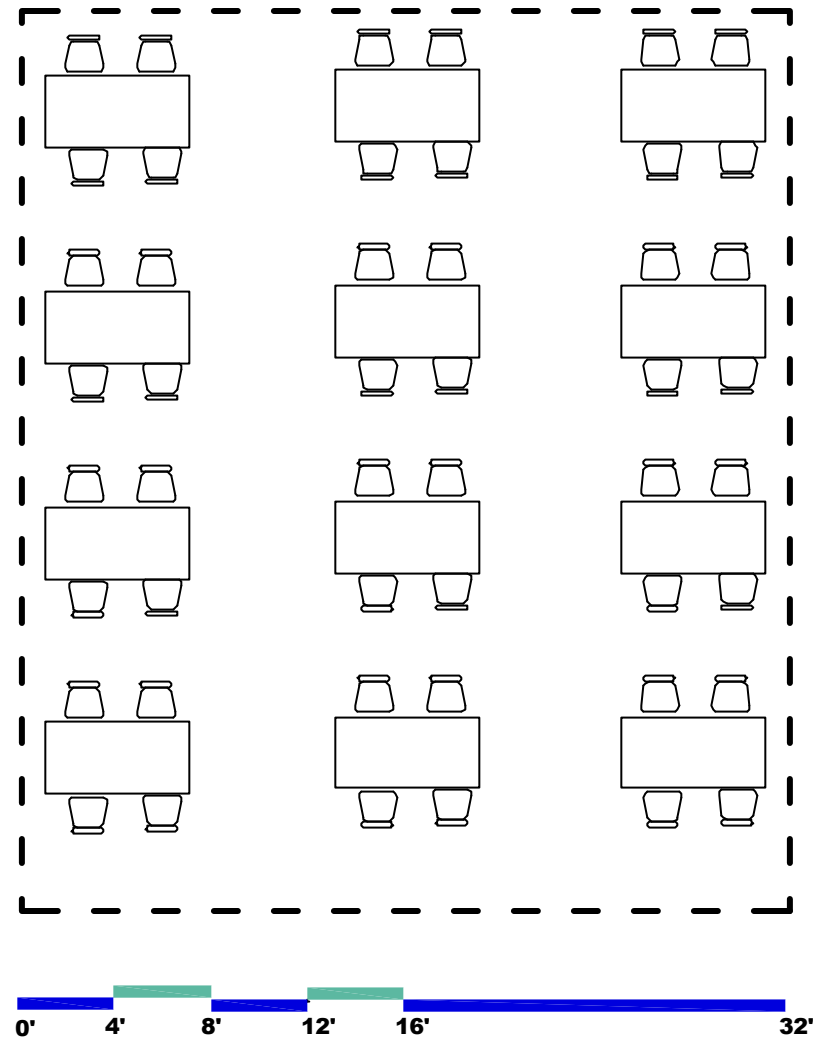
Can be combined with other similar areas to create a single larger space



summary	
space type	open study seating
net sf each space	1,200 sf
total of this type	1
assigned users	none
visitors	48
functions	provide space for individual student reading and study
location and relationships	
location	main level
proximity	stack area visible from circulation desk
access	could be available for after-hours use if location did not compromise security of library materials
security	lock not required
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	capacity
data	capacity for laptops
video/tv	capacity

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

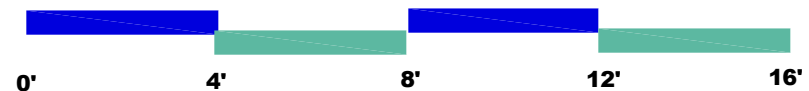
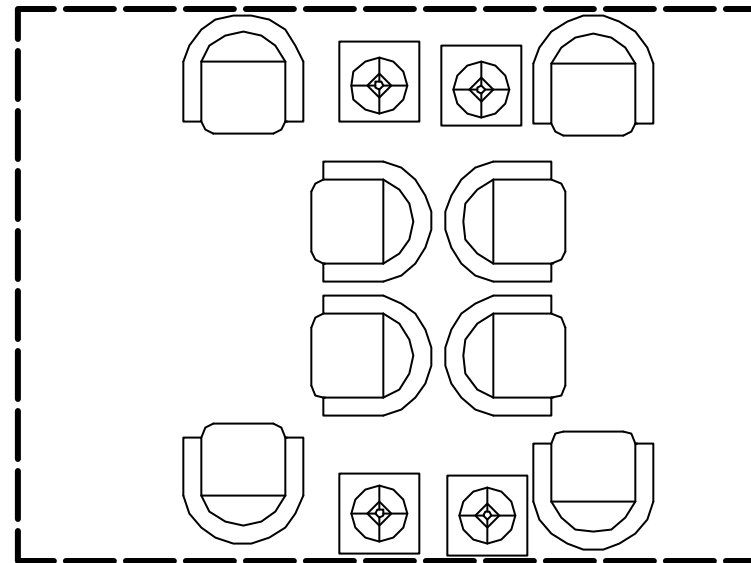
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
	waste receptacles			
12	library tables			36" x 72
48	library chairs, armless, on casters			
equipment				
48	laptops			
space notes				
Relocate usable existing tables and seating from High Tech Center and provide additional furniture to match.				



summary	
space type	open study seating
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	8
functions	provide space for individual student reading and study
location and relationships	
location	main level
proximity	stack area adjacent to periodical shelving and newspaper rack visible from circulation desk
access	could be available for after-hours use if location did not compromise security of library materials
security	lock not required
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	capacity
data	capacity for laptops

video/tv	capacity
lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
	waste receptacles			
8	reading chairs, upholstered, with arms			28" x 28" approx.
equipment				
8	laptops			
space notes				
Relocate usable existing tables and seating from High Tech Center and provide additional furniture to match.				



summary

space type	open study seating
net sf each space	100 sf
total of this type	1
assigned users	none
visitors	2 at a time
functions	provide space for coin-operated public photocopiers

location and relationships

location	main level
proximity	stack area adjacent to circulation desk
access	could be available for after-hours use if location did not compromise security of library materials
security	lock not required

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	capacity for laptops
video/tv	capacity

lighting

natural light	not required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

sound control

nc/rc	40-45
full sound walls	not required

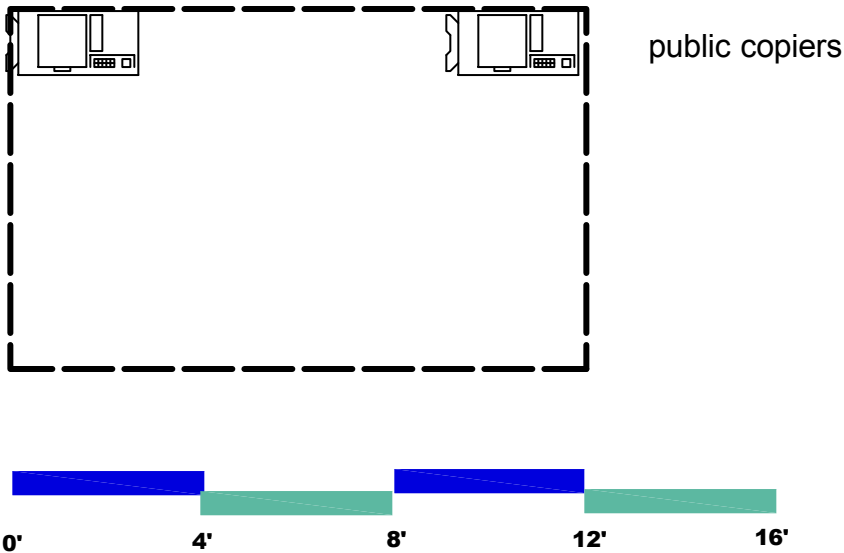
mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
2	waste receptacles			
equipment				
2	photocopiers			
space notes				



summary

space type	open computer work stations
net sf each space	150 sf
total of this type	1
assigned users	none
visitors	5
functions	provide space for public access computers

location and relationships

location	main level
proximity	stack area study area
access	visible location that does not disrupt circulation
security	

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity
data	5 stations
video/tv	capacity

lighting

natural light	not required
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor

sound control

stc	40-45
full sound walls	not required

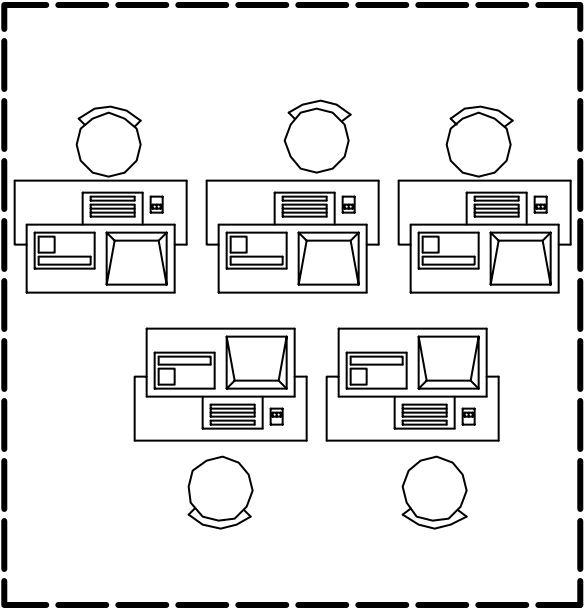
mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	none
--	------

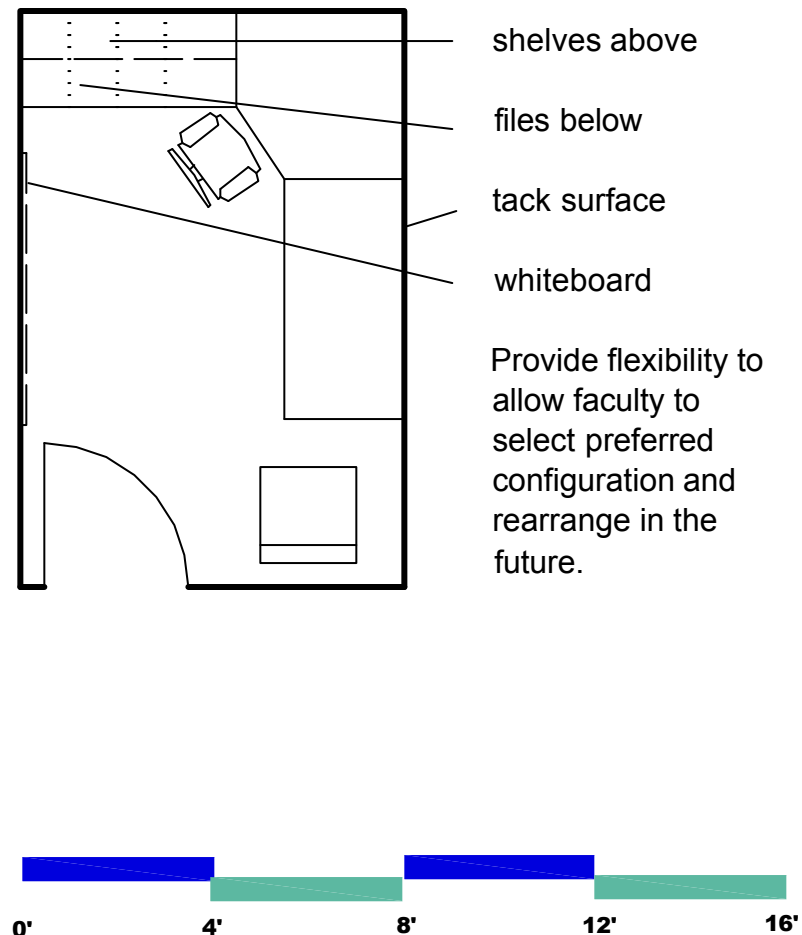
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
5	computer tables			20" x 36
5	stools			
equipment				
space notes				



summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	1
assigned users	1
visitors	1-2
functions	professional work space
location and relationships	
location	main level
proximity	circulation desk technical services areas staff offices
access	convenient access for visitors
security	
finish	
	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work station
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

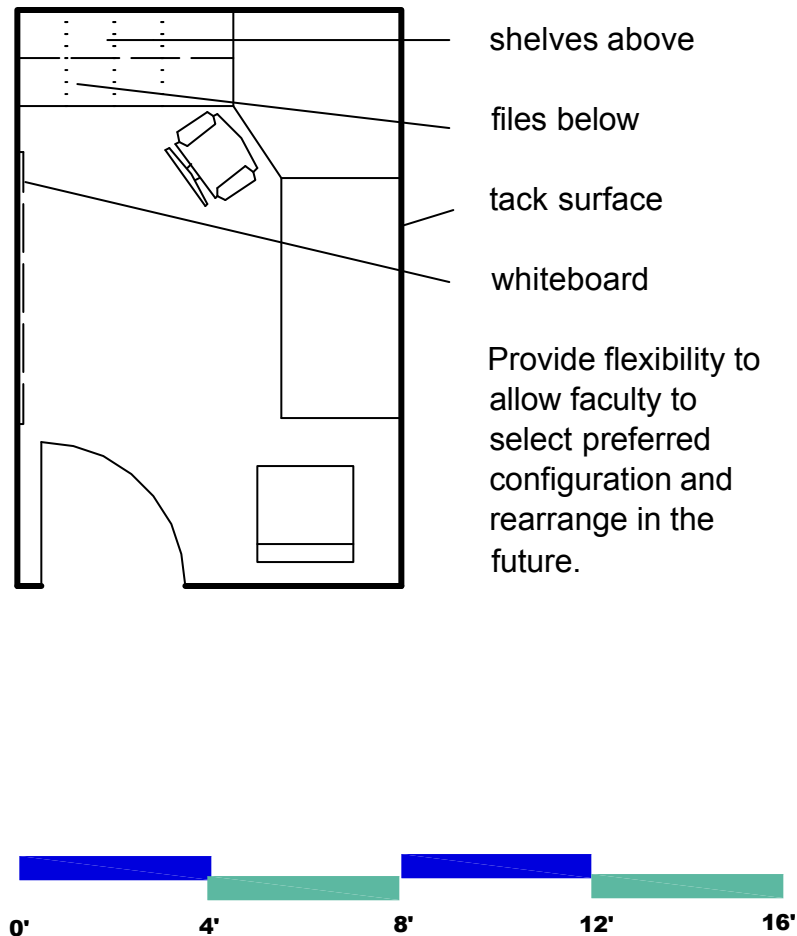
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
1	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				



summary	
space type	enclosed office
net sf each space	200 sf
total of this type	1
assigned users	2
visitors	1-2
functions	shared professional work space
location and relationships	
location	main level
proximity	circulation desk technical services areas staff offices
access	convenient access for visitors
security	
finish	
	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work station
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

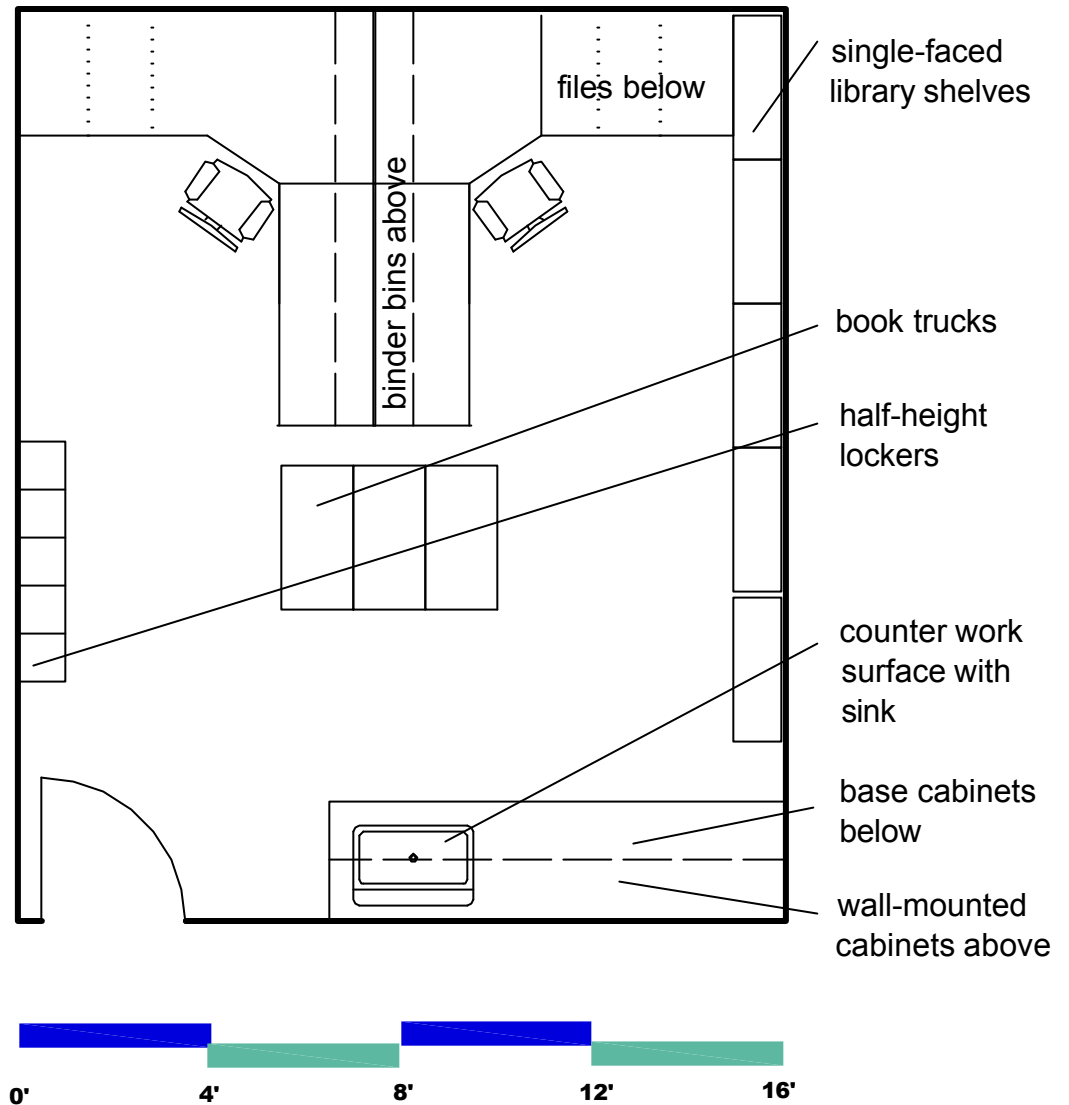
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
2	waste can			
2	work surface			30' x 60"
2	work surface			24" x 60"
2	work surface			24" x 30"
2	work surface, angled corner			24" x 30"
6	letter size file pedestals			15" x 29"
2	shelf unit, 4 shelves			12" x 60"
2	work station coat hook, tack surface, keyboard drawer			
2	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
2	desltop computer			
2	computer printer			
space notes				
All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences.				



summary	
space type	enclosed work area
net sf each space	300 sf
total of this type	1
assigned users	0
visitors	1-4
functions	shared technical work area
location and relationships	
location	main level
proximity	circulation desk technical services areas staff offices
access	convenient access for visitors
security	
finish	
	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work stations
data	computer work areas
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	base cabinet with counter work surface			24" x 10'
1	upper cabinet with adj. shelves			12" x 10'
1	tack surface			
movable furnishings				
2	waste can			
2	work stations			
5	library shelf units, single faced, 7 shelves high			12" x 36" 90" high
10	half-height lockers			12" x 12" 36" high
2	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
3-6	book trucks			17" x 32", 43" high
equipment				
2	desktop computer			
1	computer printer			
1	fax			
1	copier			
	capaciity for additional computer work stations			
space notes				



summary

space type	open computer station
net sf each space	50 sf
total of this type	1
assigned users	0
visitors	1
functions	allow patrons to check out library materials

location and relationships

location	main level
proximity	adjacent to circulation desk
access	convenient access for visitors
security	supervised by circulation desk staff

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work stations
data	computer work areas
video/tv	none

lighting

natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor

sound control

stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.

mechanical

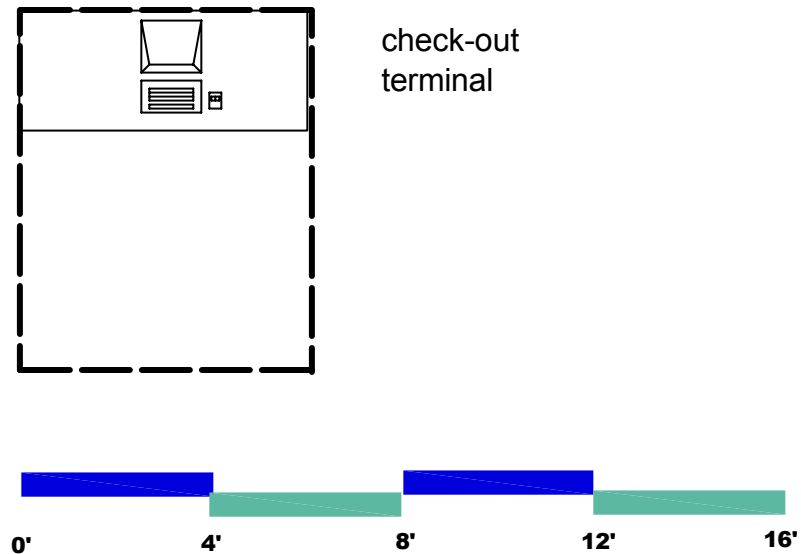
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

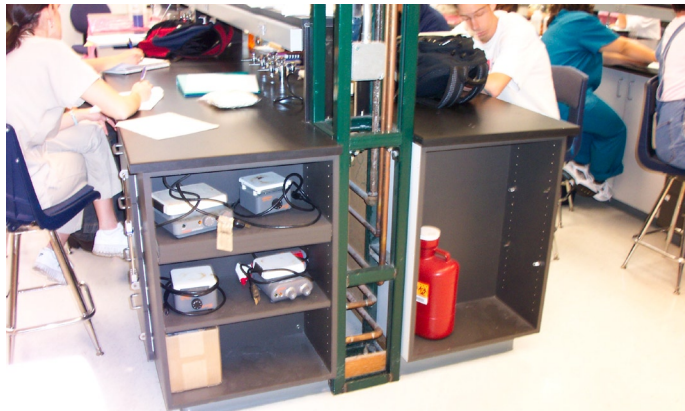
	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	waste can			
1	work table			30" x 60
equipment				
1	desltop computer			
1	computer printer			
1	scanner			
1	de-magnetizer for 3M tags			
space notes				

This space is intended for future use; it may not be set up at the time of initial construction.
Implementation will depend of the level of student familiarity with the self-check out process.



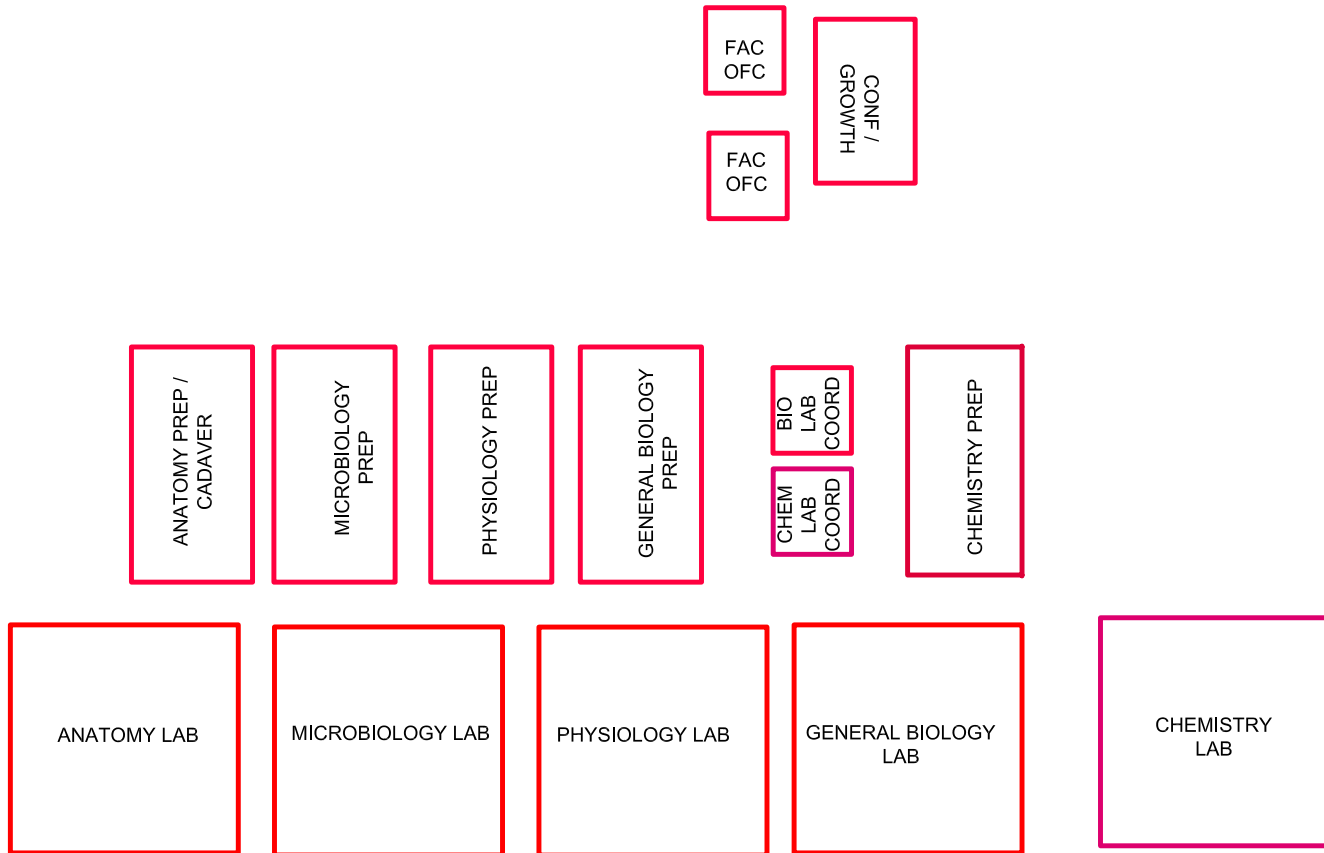




slcc jordan campus health sciences center



#	space	user capacity	quantity	nsf each	total nsf	total unassign- able sf	total gsf
01	Tiered Lecture Hall	72	1	2,160	2,160		2,160
02	Anatomy Lab	24	1	1,400	1,400		1,400
03	Physiology Lab	24	1	1,300	1,300		1,400
04	Microbiology Lab	24	1	1,300	1,300		1,300
05	General Biology Lab	24	1	1,300	1,300		1,300
06	Biology Lab Coordinator	1	1	120	120		120
07	Biology Faculty Office	1	2	200	200		200
08	Biology Prep		4	600	2,400		2,400
09	Chemistry Lab	24	1	1,200	1,200		1,200
10	Chemistry Prep		1	600	600		600
11	Chemistry Lab Coordinator		1	120	120		120
12	Small Conference / Faculty Growth		1	200	200		200
TOTALS					12,280		12,280



science prerequisites (biology & chemistry)

summary	
space type	classroom
net sf each space	2,150
total of this type	1
assigned users	72
visitors	visiting professionals
functions	provide a tiered lecture hall for classroom instruction; accommodate 2 sections of prerequisite biology courses for lecture; accommodate large program cohorts for department meetings
location and relationships <small>see drawing, page</small>	
location	level 3
proximity	near major building stair and elevator to provide convenient student access and minimize traffic disruption in program lab areas and faculty work areas
access	access from all programs and faculty work areas
security	wireless keypad
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, vinyl tile
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; instructor podium
phone	Internet access

data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines
task lights	at instructor podium
controls	at instructor podium auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	water and gas at demo island

hazardous materials

may be present in demonstrations

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	instructor podium			
4	whiteboards			48" x 144"
1	projection screen			48" x 60"
	ceiling projection mounts			
	tack strips			
	tack boards			

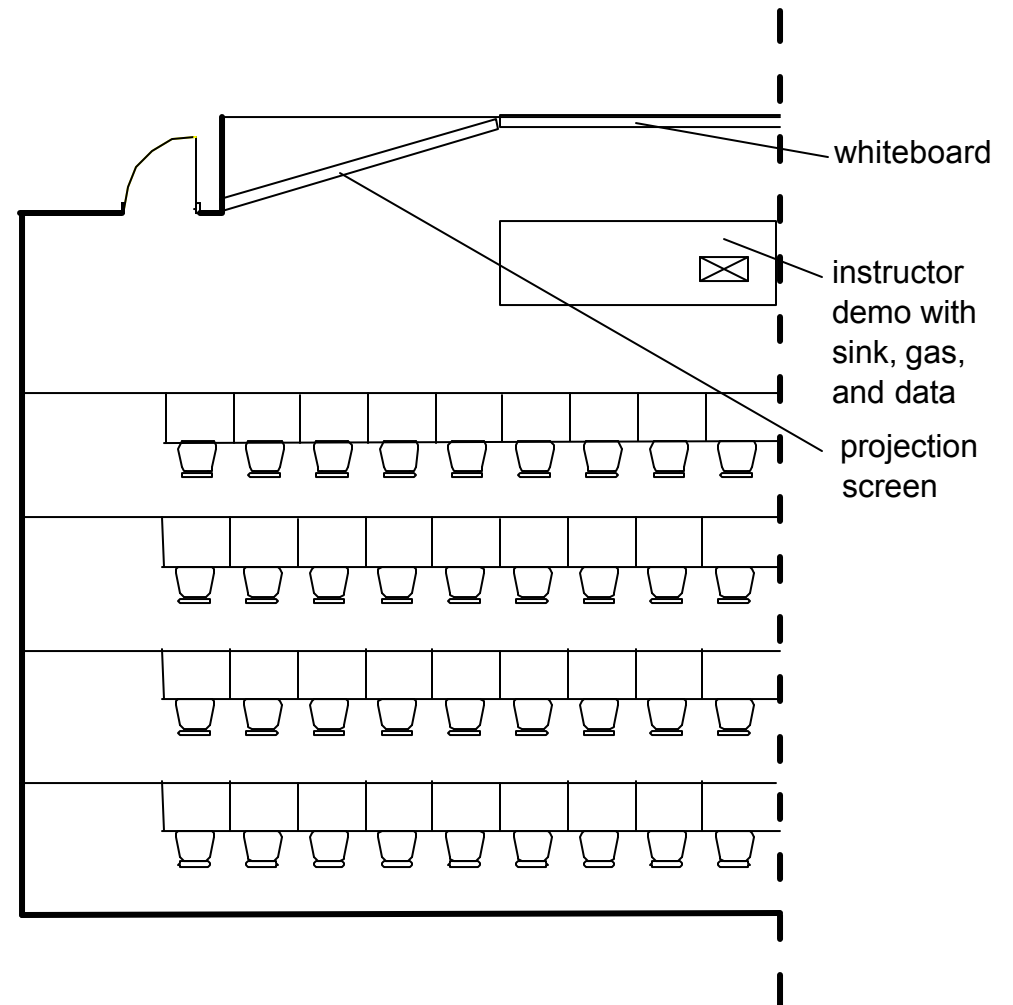
movable furnishings

72	student desks			20" x 36"
72	student chairs, armless, on casters			
2	waste cans			14"

equipment

72	student laptops			
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier if needed			

space notes



drawing shows half of lecture hall, which is symmetrical about center line



summary	
space type	wet laboratory
net sf each space	1,200
total of this type	1
assigned users	24
visitors	visiting professionals
functions	instruction
location and relationships	
location	upper level
proximity	anatomy prep room, cadaver area other biology labs
access	Spaces in which cadavers are used must have 2 doorways between the main thoroughfare and the cadaver area.
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf for movement of cadavers and bulky equipment
electrical	plus power for equipment listed below
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'
phone	Internet access

data	hook-ups for student laptops; instructor demo area with 3 network connections, 1-2 surface outlets, permanent computer, input for laptop; ceiling location for projector
video/tv	ceiling mounted projection, video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	18-20 air changes per hour for cadaver use
air circulation min cfm/person	20
100% exhaust	in cadaver area
fume hoods	in adjacent prep rooms
med gases	gas hookups at demo island
summer design temp	75° F

winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	water at lab benches; safety shower demonstration island with sink and gooseneck faucet

hazardous materials

Cadavers are preserved in formaldehyde. Biohazard materials. Chemicals.

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor demonstration island with water, gas, and media			
1	whiteboard			48" x 72"
6	4-sided lab benches with storage below			
	base cabinet with counter work surface			24" x 48'
10 lf	wall-mounted cabinets			14" x 10'
24	coat hooks and backpack storage			
10 lf	wall- mounted computer work shelf			24" x 10'
3	computer work chairs, armless, on casters			

10 lf	wall-mounted model storage cabinets, lockable			14" x 10'
	tack boards			
	tack strips			
2	lockable microscope storage cabinet			48" x 24", full height, 4 adj. shelves

movable furnishings

24	student chairs, armless, on casters			20" x 20" approx.
2	waste cans			14"

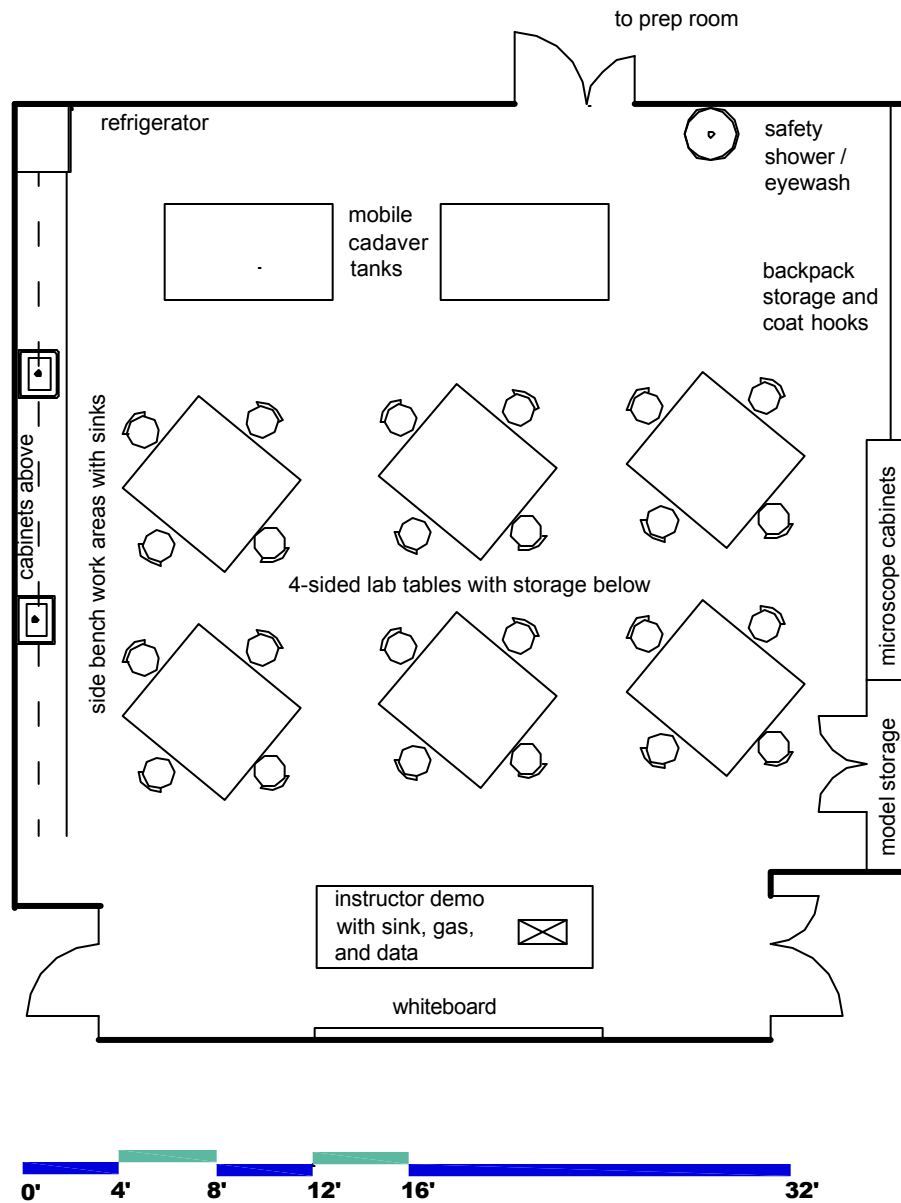
equipment

24	student laptops			
3	desktop computers			
1	clock linked to campus master			
1	permanent desktop computer at instructor podium			
1	VCR			
1-2	DVD players			
1	document camera			
1	switching system			
	audio speakers			
1	residential type refrigerator			
1	OSHA approved safety shower / eye wash			
2	cadaver tanks, mobile			
2	skeletons			mounted
	small models			head-size to half torso
	wall-mounted pencil sharpener			
	misc. lab supplies			

space notes

The lab requires sufficient open floor space to accommodate 2 cadavers in mobile tanks for demonstration. Utilities should be fed from below; ceiling drops to lab benches interfere with visibility and are not acceptable. It is preferable not to have to move the cadavers any more than absolutely necessary, so having a prep room adjacent to the lab is a high priority. See appendix for laboratory design procedures for cadaver use.

The demonstration area should have enough space to accommodate displays of models, several skeletons, and anatomical charts. Anatomy models, which range in size from small models of body parts to half torsos, are very costly and vulnerable to theft. Lockable storage cabinets must be provided.



summary	
space type	wet laboratory
net sf each space	1,300
total of this type	1
assigned users	24
visitors	visiting professionals
functions	instruction
location and relationships	
location	upper level
proximity	other biology labs
access	convenient access from faculty office and work areas
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf for movement of bulky equipment
electrical plus power for equipment listed below	
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'; plug mold at center of lab bench; ceiling location for projector
phone	Internet access
data	hook-ups for student laptops; desk-top computers at side work area; instructor demo area

video/tv	ceiling mounted projection, video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	
fume hoods	in adjacent prep rooms
med gases	gas hook-ups at lab bench and demo island
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

water at lab benches;
demonstration island sink with
gooseneck faucet; safety shower /
eyewash

hazardous materials

biohazard waste disposal; chemical
drains

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	instructor demonstration island with water, gas, power, media			
1	whiteboard			48" x 144"
24	lab bench stations with water, gas and power, shelf rack			
	shelf units at bench ends			
1	projection screen			
24	coat hooks and backpack storage			
1	wall-mounted side counter with 6 computer work stations, cabinets and open shelves above, drawers and kneeholes below			24" x 18 lf
1	counter work surface with gooseneck sink, cabinets and drawers below			24 lf
	tack boards			

movable furnishings

24	lab stools			18"
6	computer work chairs, armless, on' casters			
	counter work surface with cabinets below			
	wall-mounted cabinets			
2	waste cans			large

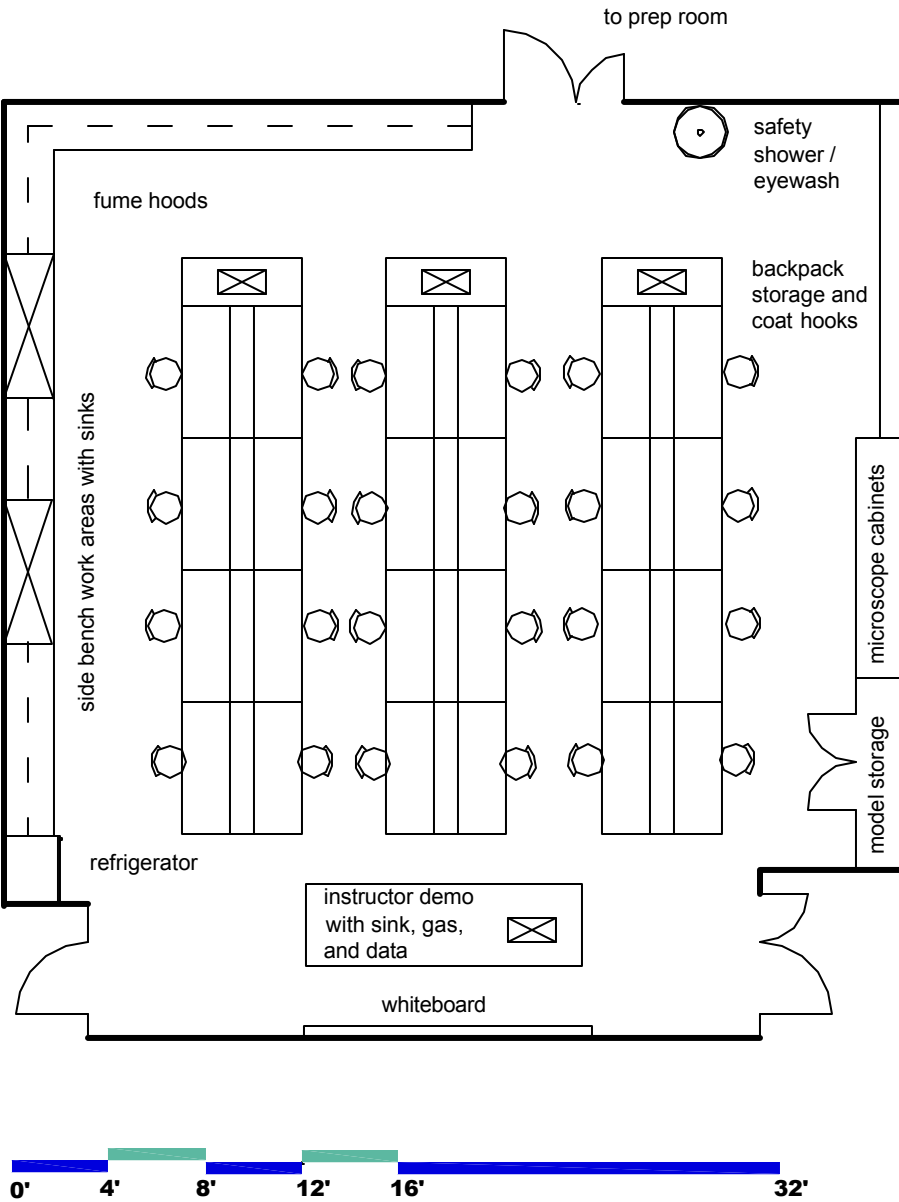
equipment

24	student laptops			
6	desktop computers			
1	computer printer			
1	clock linked to campus master			
	desktop computer			
1	full size residential type refrigerator/ freezer			
1	OSHA approved safety shower and eye wash			
	misc. lab supplies			

space notes

Biology instructors prefer a chemical resistant table
work surface at lab benches, with no casework below.
They report that they are not currently using the
case work in the labs in the Redwood Campus Science
and Industries building. If benches are provided, they
should have kneeholes and pull-out writing shelves
at each student work station.

Utilities should be fed from below; ceiling drop downs at
lab benches interfere with visibility and are not
acceptable



summary	
space type	wet laboratory
net sf each space	1,300
total of this type	1
assigned users	24
visitors	visiting professionals
functions	instruction
location and relationships	
location	upper level
proximity	other biology labs
access	convenient access from faculty office and work areas
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf for movement of bulky equipment
electrical plus power for equipment listed below	
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'; plug mold at center of lab bench; ceiling location for projector
phone	Internet access
data	hook-ups for student laptops; desk-top computers at side work area; instructor demo area

video/tv	ceiling mounted projection, video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	
fume hoods	in adjacent prep rooms
med gases	gas hook-ups at lab bench and demo island
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

water at lab benches;
demonstration island sink with
gooseneck faucet; safety shower /
eyewash

hazardous materials

biohazard waste disposal; chemical
drains

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor demonstration island with water, gas, power, media			
1	whiteboard			48" x 144"
24	lab bench stations with water, gas and power, shelf rack			
	shelf units at bench ends			
1	projection screen			
24	coat hooks and backpack storage			
1	wall-mounted side counter with 6 computer work stations, cabinets and open shelves above, drawers and knee-holes below			24" x 18 lf
1	counter work surface with gooseneck sink, cabinets and drawers below			24 lf
	tack boards			

movable furnishings

24	lab stools			18"
6	computer work chairs, armless, on casters			
2	waste cans			large

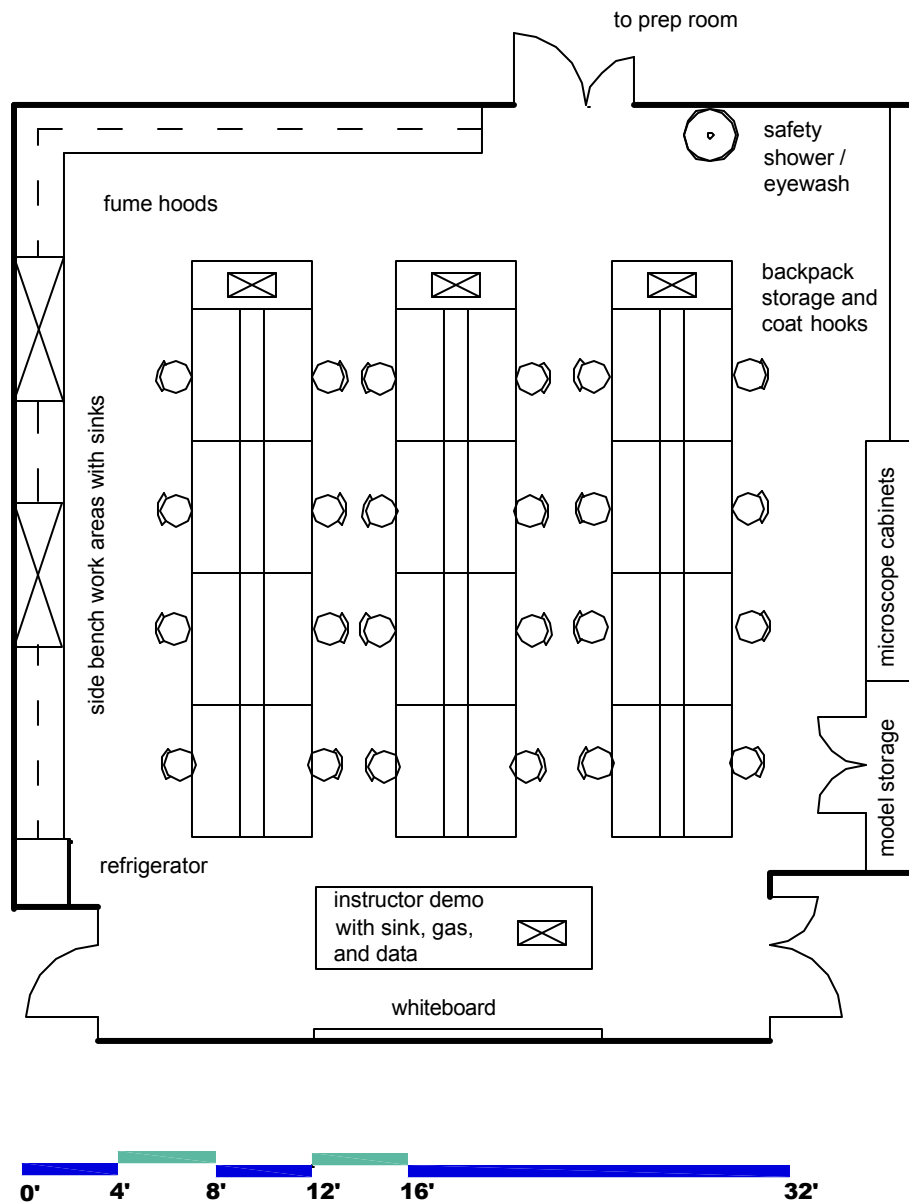
equipment

24	student laptops			
6	desktop computers			
1	computer printer			
11	clock linked to campus master			
	desktop computer			
1	full size residential type refrigerator/ freezer			
1	OSHA approved safety shower and eye wash			
	misc. lab supplies			

space notes

Biology instructors prefer a chemical resistant table work surface at lab benches, with no casework below. They report that they are not currently using the case work in the labs in the Redwood Campus Science and Industries building. If benches are provided, they should have kneeholes and pull-out writing shelves at each student work station.

Utilities should be fed from below; ceiling drop downs at lab benches interfere with visibility and are not acceptable



summary	
space type	wet laboratory
net sf each space	1,300
total of this type	1
assigned users	24
visitors	visiting professionals
functions	instruction
location and relationships	
location	upper level
proximity	other biology labs
access	convenient access from faculty office and work areas
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf for movement of bulky equipment
electrical plus power for equipment listed below	
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'; plug mold at center of lab bench; ceiling location for projector
phone	Internet access
data	hook-ups for student laptops; desk-top computers at side work area; instructor demo area

video/tv	ceiling mounted projection, video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector
lighting	
natural light	desirable
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	
fume hoods	in adjacent prep rooms
med gases	gas hook-ups at lab bench and demo island
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

water at lab benches;
demonstration island sink with
gooseneck faucet; safety shower /
eyewash

hazardous materials

biohazard waste disposal; chemical
drains

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor demonstration island with water, gas, power, media			
1	whiteboard			48" x 144"
24	lab bench stations with water, gas and power, shelf rack			
	shelf units at bench ends			
1	projection screen			
24	coat hooks and backpack storage			
1	wall-mounted side counter with 6 computer work stations, cabinets and open shelves above, drawers and knee-holes below			24" x 18 lf
1	counter work surface with gooseneck sink, cabinets and drawers below			24 lf
	tack boards			

movable furnishings

24	lab stools			18"
6	computer work chairs, armless, on casters			
2	waste cans			large

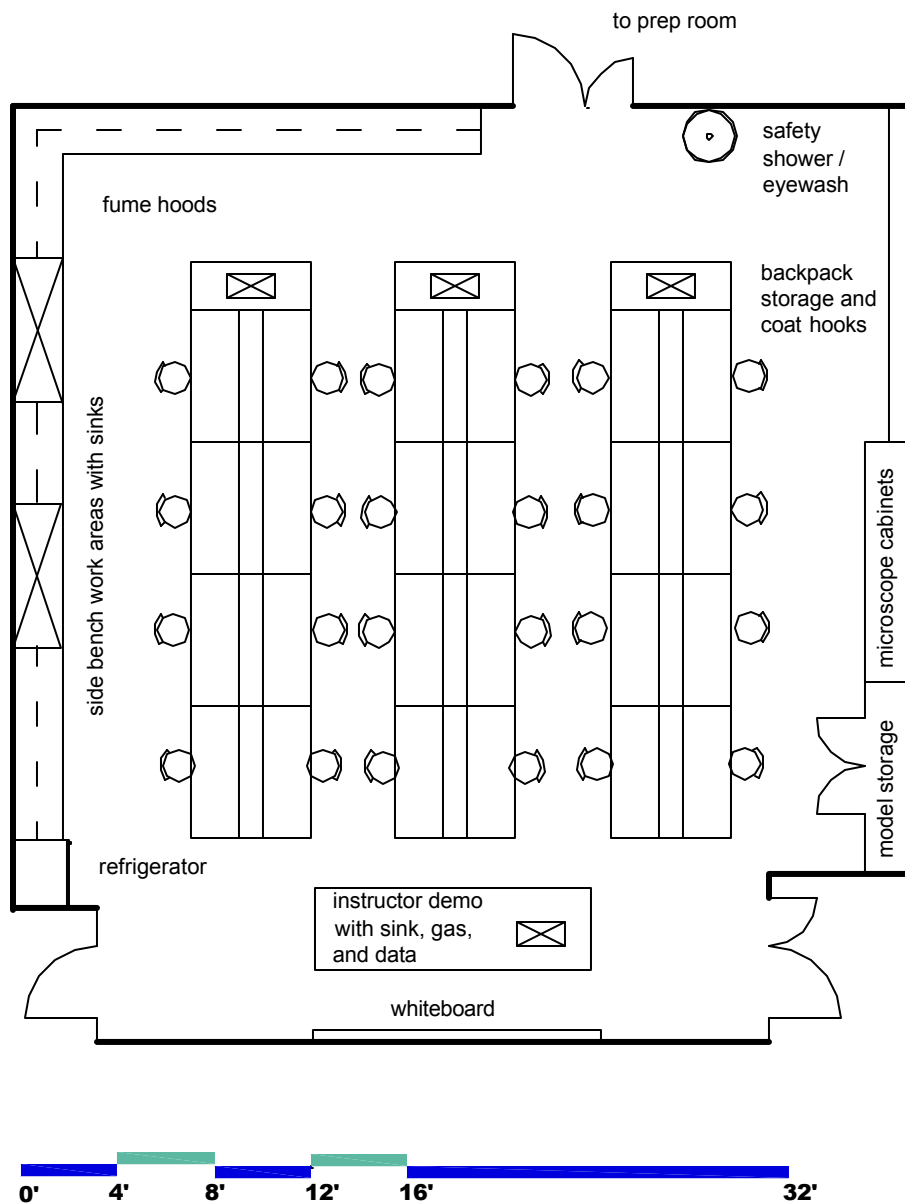
equipment

24	student laptops			
6	desktop computers			
1	computer printer			
11	clock linked to campus master			
	desktop computer			
1	full size residential type refrigerator/ freezer			
1	OSHA approved safety shower and eye wash			
	misc. lab supplies			

space notes

Biology instructors prefer a chemical resistant table work surface at lab benches, with no casework below. They report that they are not currently using the case work in the labs in the Redwood Campus Science and Industries building. If benches are provided, they should have knee holes and pull-out writing shelves at each student work station.

Utilities should be fed from below; ceiling drop downs at lab benches interfere with visibility and are not acceptable

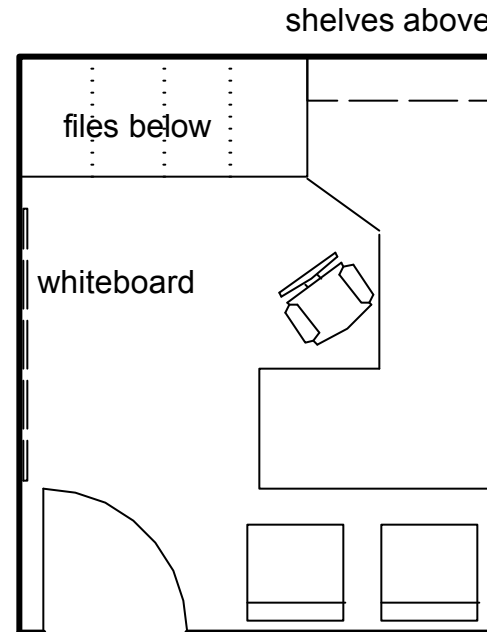


summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	level 4
proximity	anatomy, physiology, micro-biology, and general biology lab
access	convenient access for students and faculty
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work station
data	computer work area
video/tv	none

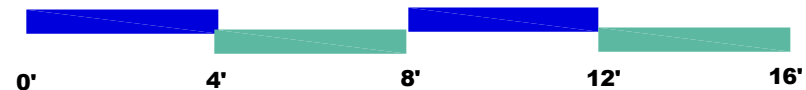
lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	signage/rack			
movable furnishings				
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.
equipment				
1	desltop computer			
1	computer printer			
space notes				

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



summary	
space type	enclosed private office
net sf each space	100 sf
total of this type	2
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	level 4
proximity	cluster with other faculty and adjunct work areas
access	convenient access for students faculty access to labs and classrooms
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work station
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	whiteboard with frame and tray			48" x 36"
1	signage/rack			

movable furnishings

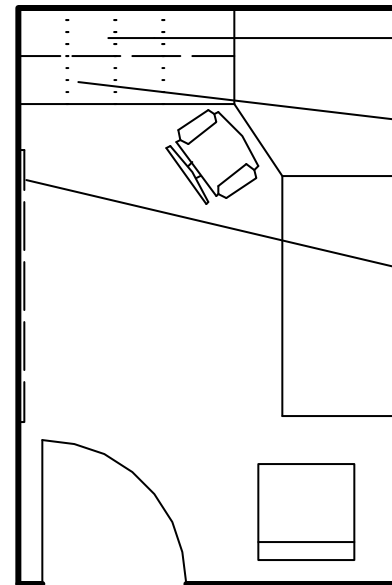
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
1	side chair, armless, upholstered			20" x 20" approx.

equipment

1	desktop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



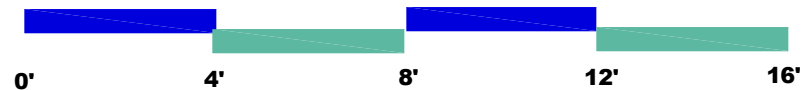
shelves above

files below

tack surface

whiteboard

Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



summary	
space type	laboratory prep
net sf each space	600
total of this type	4, one for each biology laboratory
assigned users	1-2
visitors	visiting professionals
functions	prepare materials for use in anatomy, physiology, microbiology, and general biology classes and labs
location and relationships	
location	upper level
proximity	biology labs and classrooms lab coordinator office
access	review provisions for anatomy prep room with cadaver storage requirements
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf provide 48" aisles between shelves
electrical	plus power for equipment listed below
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'
phone	one line
data	capacity for 2 work stations
video/tv	no

lighting	
natural light	desirable
foot candles	10-15 at board surfaces 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	may have exam light at anatomy cadaver area
controls	auto sensor
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	18-20 air changes per hour for cadaver use
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	yes
med gases	gas at bench areas
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	water; safety shower/eyewash, distilled water
hazardous materials	
formaldehyde, biohazard, OSHA approved storage for flammables, corrosives, and acids	

typical prep room see space notes for individual area requirements

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	counter work surface with sink, lockable cabinets and lockable drawers below			
1	whiteboard			48" x 72"
	coat hooks			
	tack board			

movable furnishings

	work chairs, armless, on casters			20" x 20" approx.
2	waste cans			large
24 lf	industrial shelf units w/ seismic bracing			48" x 24' 72" high
	OSHA approved chemical storage cabinets, vented to exhaust			

equipment

1	clock linked to campus master			
	misc. lab supplies			
1	residential type dishwasher			
1	full size residential type refrigerator			
1	fume hood			6'
	autoclave			

space notes

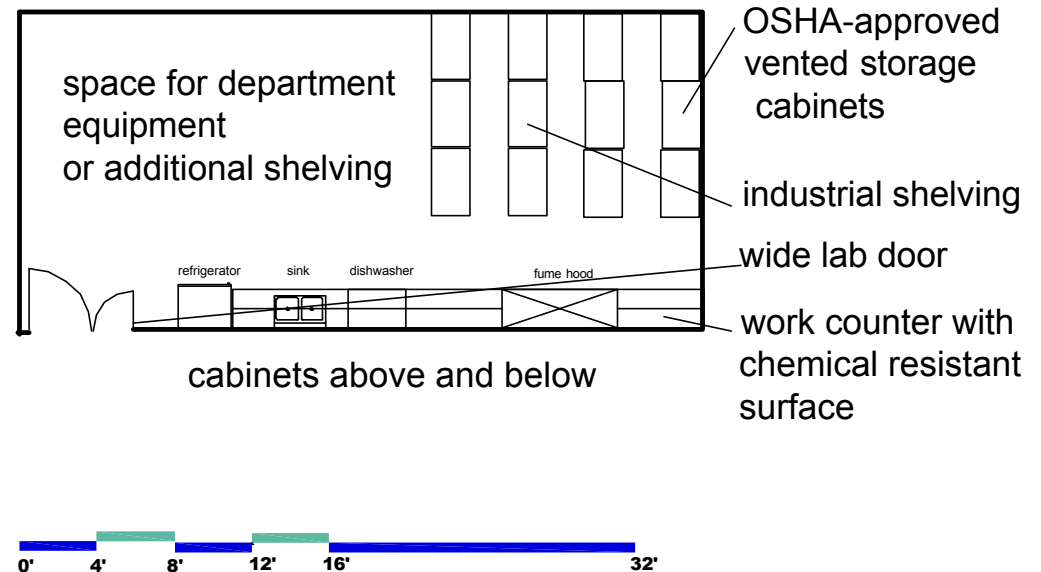
anatomy prep

The anatomy prep area needs to accommodate a stainless steel dissection area with 3' clearance and space to move the cadaver tanks. Staff spend

more than 100 hours completing prosection for each cadaver used in the labs. Cadavers are typically used for 3 semesters (2 years). If desirable for minimizing the cost of environmental control, the cadavers could be housed and prosected in a single intermediate space, provided that space was adequate to allow students to observe demonstrations.

microbiology prep

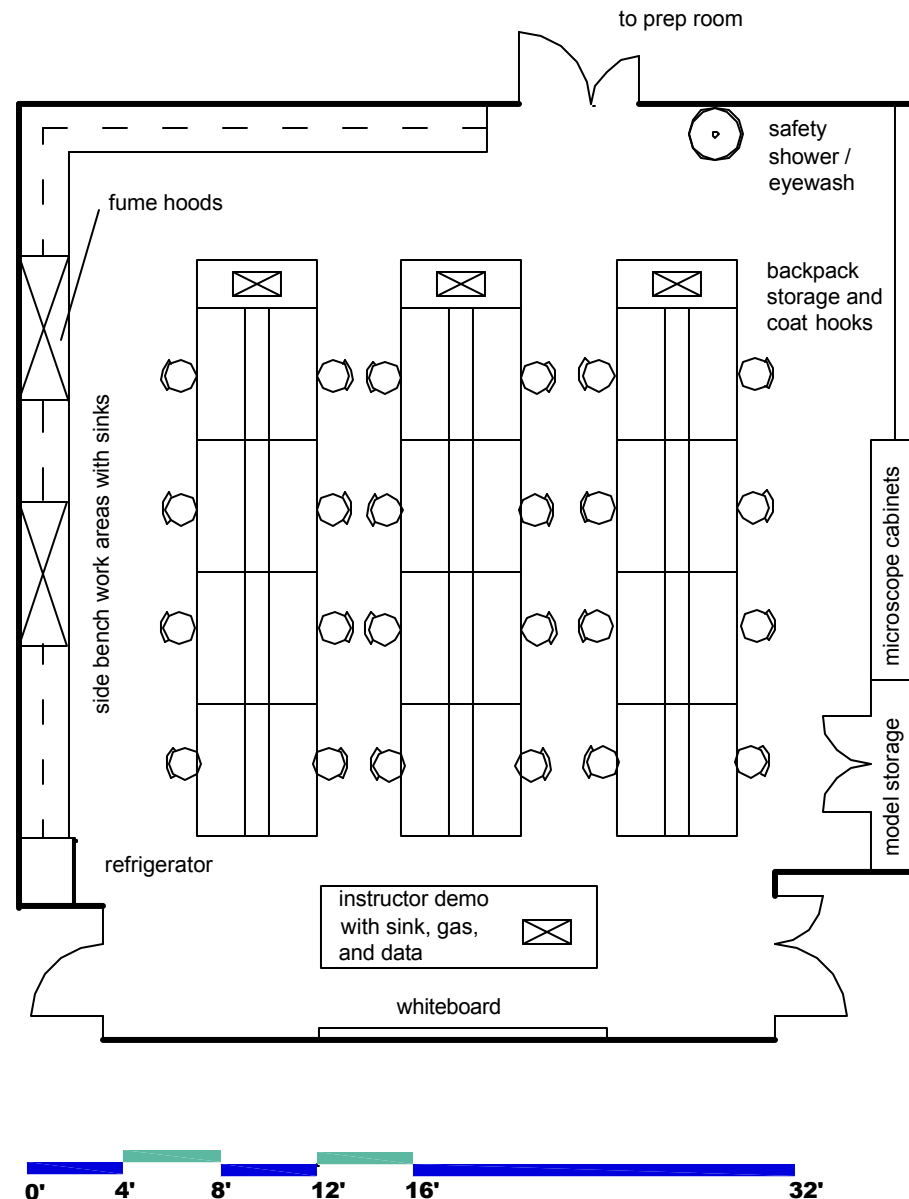
Preparation of materials for microbiology involves deactivation of microbes. There are four basic sterilization protocols: autoclaves, which use heat, alcohol, ethylene oxide, and electron beam sterilization. The prep area requires purified water, which requires deionization, reverse osmosis, and a still using a charcoal filter. Hazardous materials storage cabinets must be properly vented, either with direct connections to the exhaust system or with tubing connections to a fume hood.



summary	
space type	wet laboratory
net sf each space	1,200
total of this type	1
assigned users	24
visitors	visiting professionals
functions	instruction
location and relationships	
location	upper level
proximity	other biology labs
access	convenient access from faculty office and work areas
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf for movement of bulky equipment
electrical	plus power for equipment listed below
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'; plug mold at center of lab bench
phone	Internet access
data	hook-ups for student laptops; instructor demo area
video/tv	at instructor console

lighting	
natural light	desirable
foot candles	10-15 at board surface 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	at instructor console
controls	at instructor console
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	at fume hoods
fume hoods	minimum 60"
med gases	gas hook-ups at center of lab bench
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	water at lab benches and demonstration island; safety shower
hazardous materials	
	acids, corrosives

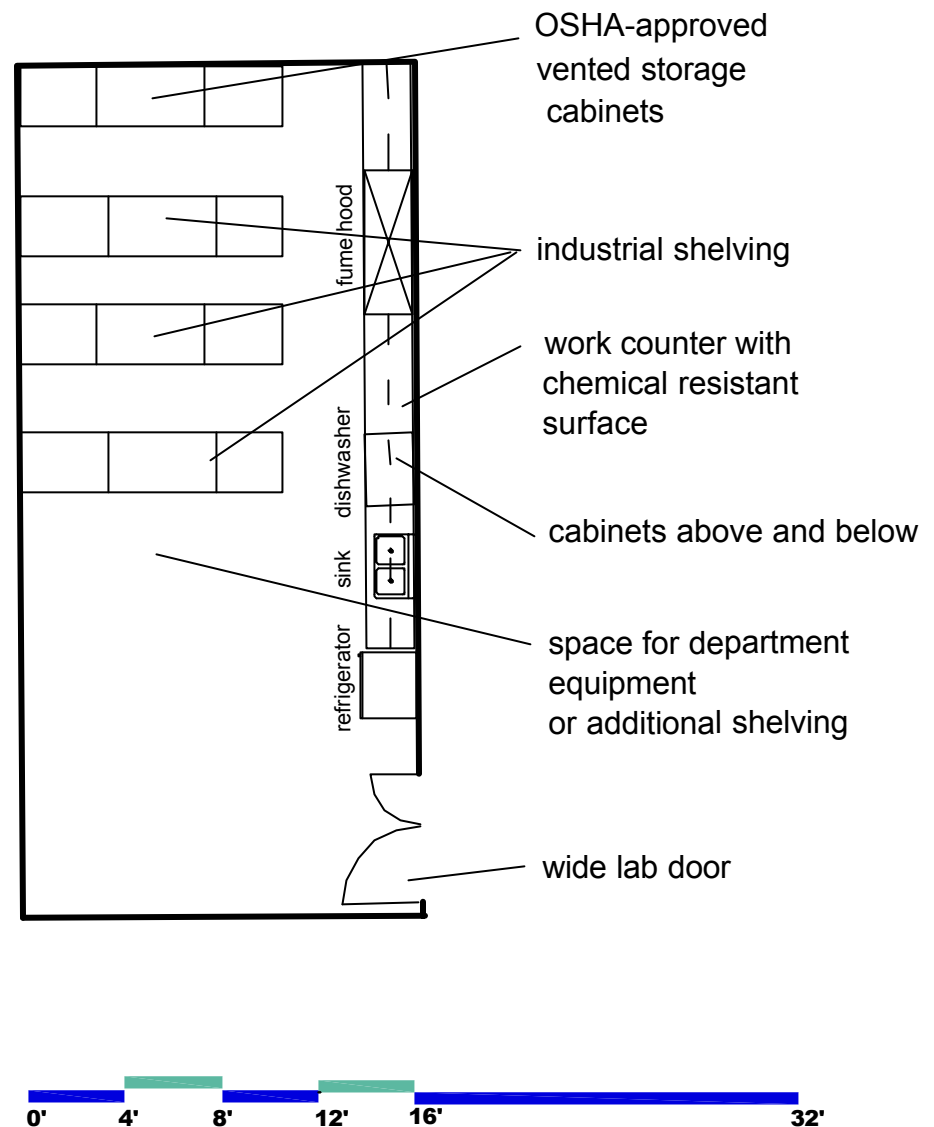
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor demonstration island with water, gas, power, media			
1	whiteboard			48" x 72"
24	lab bench stations w/ gas and power; kneeholes, pullout writing surface, and lockable drawers			
1	projection screen			
6	lab sink at each bench end			
24	coat hooks and backpack storage			
	wall-mounted side counters			
	tack boards			
6	fume hoods			60" minimum
movable furnishings				
24	lab stools			18"
2	waste cans			14"
equipment				
24	student laptops			
1	clock linked to campus master			
	desktop computer			
1	OSHA approved safety shower and eye wash			
	misc. lab supplies			
space notes				



summary	
space type	laboratory prep
net sf each space	600
total of this type	4, one for each biology laboratory
assigned users	1-2
visitors	visiting professionals
functions	prepare materials for use in anatomy, physiology, microbiology, and general biology classes and labs
location and relationships	
location	upper level
proximity	biology labs and classrooms lab coordinator office
access	review provisions for anatomy prep room with cadaver storage requirements
security	wireless keypad
finish	see also Jordan Campus Design Guidelines
materials & finish	chemical-resistant surfaces stain resistant hard surface flooring provide 3' door with 2' inactive leaf provide 48" aisles between shelves
electrical plus power for equipment listed below	
power	min 2 double duplex front and rear walls, 1 double duplex side walls, min 1 double duplex every 12'
phone	one line
data	capacity for 2 work stations
video/tv	no

lighting	
natural light	desirable
foot candles	10-15 at board surfaces 30 general; 75 for reading tasks; 100-150 for lab tasks
fixture types	direct/indirect
task lights	may have exam light at anatomy cadaver area
controls	auto sensor
sound control	
stc	40-45
full sound walls	no
mechanical	
outdoor air min cfm/person	18-20 air changes per hour for cadaver use
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	yes
med gases	gas at bench areas
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	water; safety shower/eyewash, distilled water
hazardous materials	
OSHA approved chemical storage cabinets for acids, corrosives, and flammables; fume hood rated for perchloric acid	

typical prep room see space notes for individual area requirements				
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	counter work surface with sink, lockable cabinets and lockable drawers below			
1	whiteboard			48" x 72"
	coat hooks			
	tack board			
movable furnishings				
	work chairs, armless, on casters			20" x 20" approx.
2	waste cans			large
24 lf	industrial shelf units w/ seismic bracing			48" x 24' 72" high
	OSHA approved chemical storage cabinets, vented to exhaust			
equipment				
1	clock linked to campus master			
	misc. lab supplies			
1	residential type dishwasher			
1	full size residential type refrigerator			
1	fume hood, stainless steel			5'
1	still for water			
	glassware			
1	autoclave			
space notes				



summary	
space type	enclosed private office
net sf each space	120 sf
total of this type	1
assigned users	1 full-time faculty person
visitors	1-2 students
functions	professional work space
location and relationships	
location	level 4
proximity	chemistry lab
access	convenient access for students and faculty
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at work station
data	computer work area
video/tv	none

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	low-glare T-8 w/ electronic ballast
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
back-up generator	no
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	whiteboard with frame and tray			48" x 36"
1	signage/rack			

movable furnishings

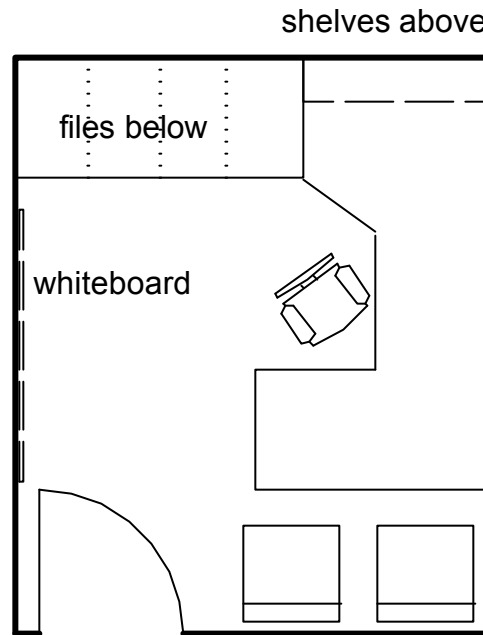
1	waste can			
1	work surface			30' x 60"
1	work surface			24" x 60"
1	work surface			24" x 30"
1	work surface, angled corner			24" x 30"
3	letter size file pedestals			15" x 29"
1	shelf unit, 4 shelves			12" x 60"
	work station coat hook, tack surface, keyboard drawer			
1	work chair, arms, swivel, adjustable, on casters			27" x 28" approx.
2	side chair, armless, upholstered			20" x 20" approx.

equipment

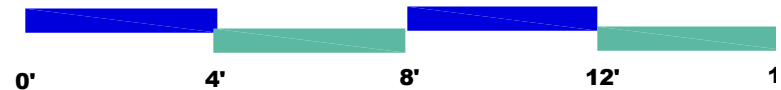
1	desktop computer			
1	computer printer			

space notes

All offices should be flexible, with adjustable work surfaces that allow individual faculty to reconfigure their offices to suit their own needs and space preferences. Each office should have a display unit for posting of faculty name and office hours and a rack for student papers (where code permits).



Provide flexibility to allow faculty to select preferred configuration and rearrange in the future.



summary	
space type	enclosed
net sf each space	200 sf
total of this type	1
assigned users	none
visitors	6-8
functions	small conference area that can be converted for future faculty or adjunct work space
location and relationships	
location	main level
proximity	cluster with other faculty and adjunct work areas on floor
access	convenient access for students and faculty
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for one at each potential future work station area
data	capacity for one computer and printer at each future work station
video/tv	none
lighting	
natural light	desirable; light control required

foot candles	30 general; 75 for reading tasks
fixture types	
task lights	capacity for future office use
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	

built-in fixtures

1	whiteboard with frame and tray			48" x 36"
---	--------------------------------	--	--	-----------

movable furnishings

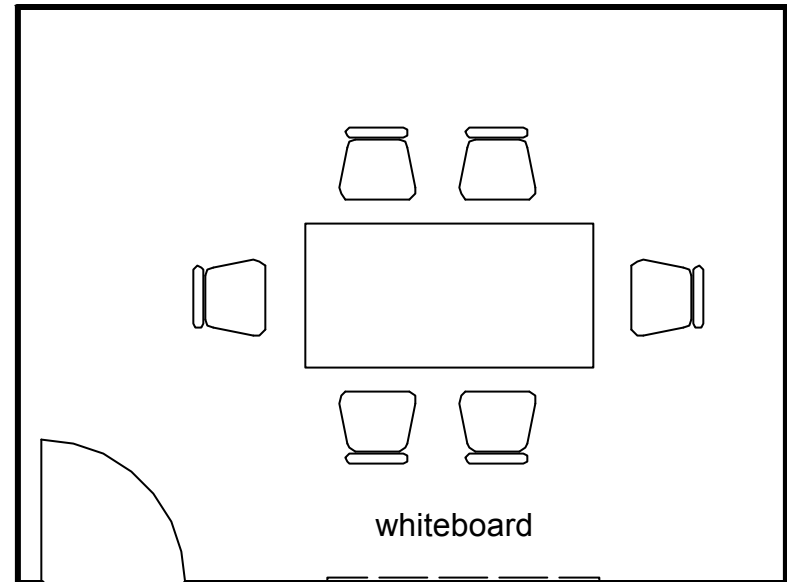
1	waste can			
1	library reading table			36" x 72"
6	side chair, armless, upholstered			20" x 20" approx.

equipment

	capacity for 8 laptops and for desktops at future office work stations			
	capacity for printer to serve future office uses			
	capacity for users' personal electronic items			

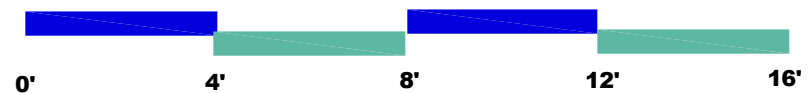
space notes

Spaces may be combined with those from other departments to create larger conference/work areas, provided that the configuration will support future conversion to faculty office or adjunct space as programs grow. This capacity will be critical to allow the building to remain functional in the future; lack of faculty space is the major spatial obstacle to program expansion.



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space



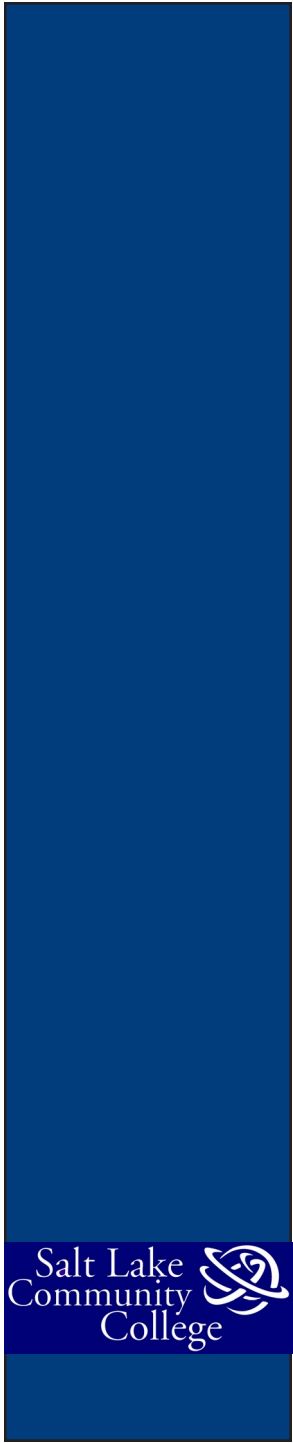
12 general science
slcc jordan campus health sciences center
small conference/
faculty growth



auditorium / lecture hall
slcc jordan campus health sciences center

Salt Lake
Community
College





#	space	user capacity	quantity	nsf each	total nsf	total unassignable sf	total gsf
01	Large Lecture Hall	500	1	12	6,000		6,000
TOTALS					6,000		6,000

slcc jordan campus health sciences center



01 auditorium / large lecture hall

lecture hall

slcc jordan campus health sciences center

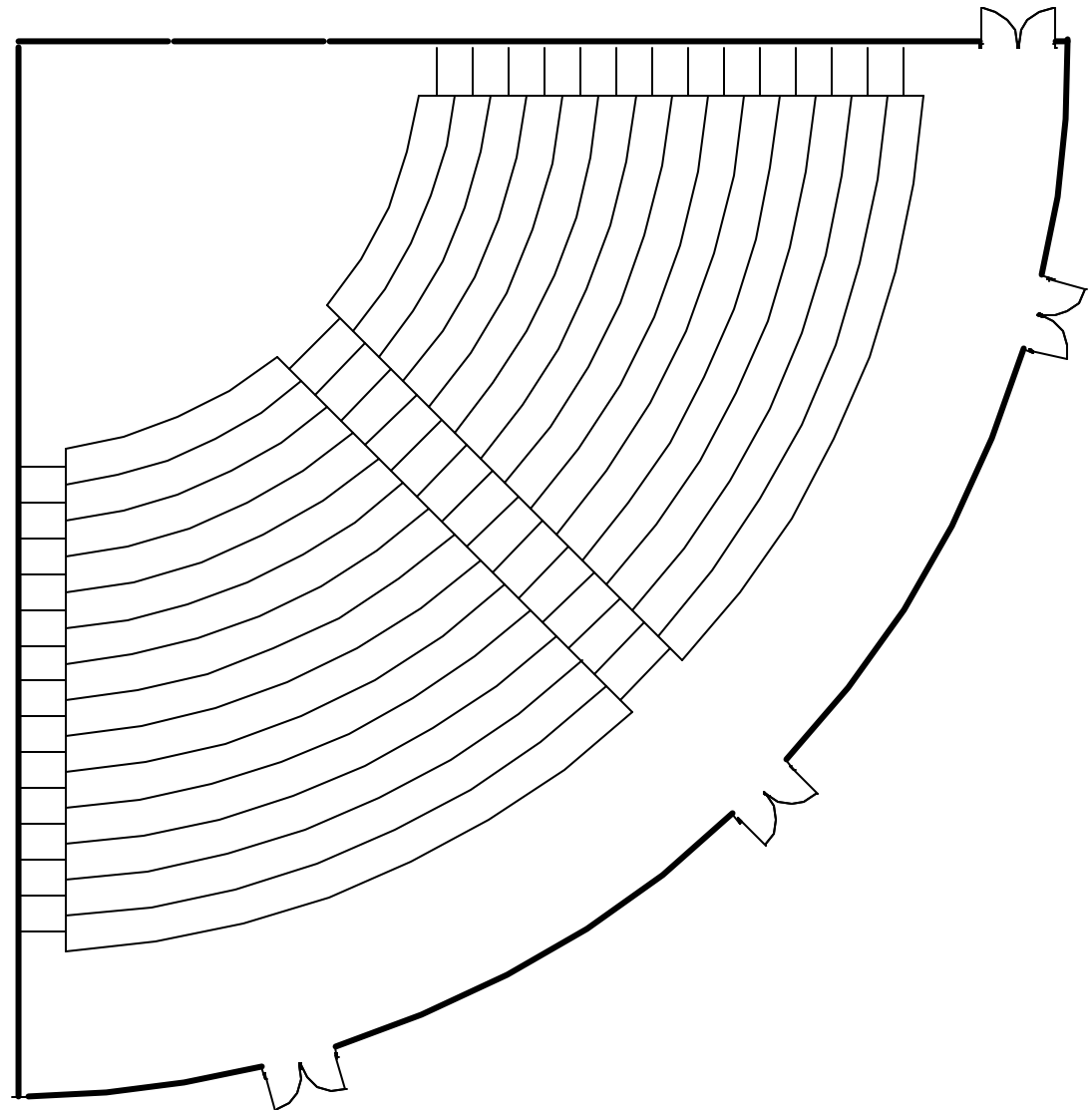


summary	
space type	large lecture hall
net sf each space	6,000
total of this type	1
assigned users	500
visitors	
functions	courses for lecture; accommodate large program cohorts for department meetings
location and relationships <small>see drawing, page</small>	
location	stand-alone, lower level and main level
proximity	adjacent to main public entry
access	access from all programs and main public concourse
security	wireless keypad
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; ceiling location for projector; podium
phone	Internet access
data	hook-ups for student laptops; instructor podium -- 3 network connections, 1-2 outlets on surface, permanent computer, input for laptop; ceiling location for projector

video/tv	ceiling mounted projection; video coax RG 59, S video cable, RS 32, IR control, 2 VGA cables from podium to projector EDNET send/recieve capacity
lighting	
natural light	no
foot candles	10-15 at board surface 30 general; 75 for reading tasks
fixture types	direct/indirect general illumination; wash at whiteboard; direct light on instructor area; avoid conflict with sight lines
task lights	at instructor podium
controls	at instructor podium auto sensor dimmable stage lighting
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	15
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	
	may be present in demonstrations

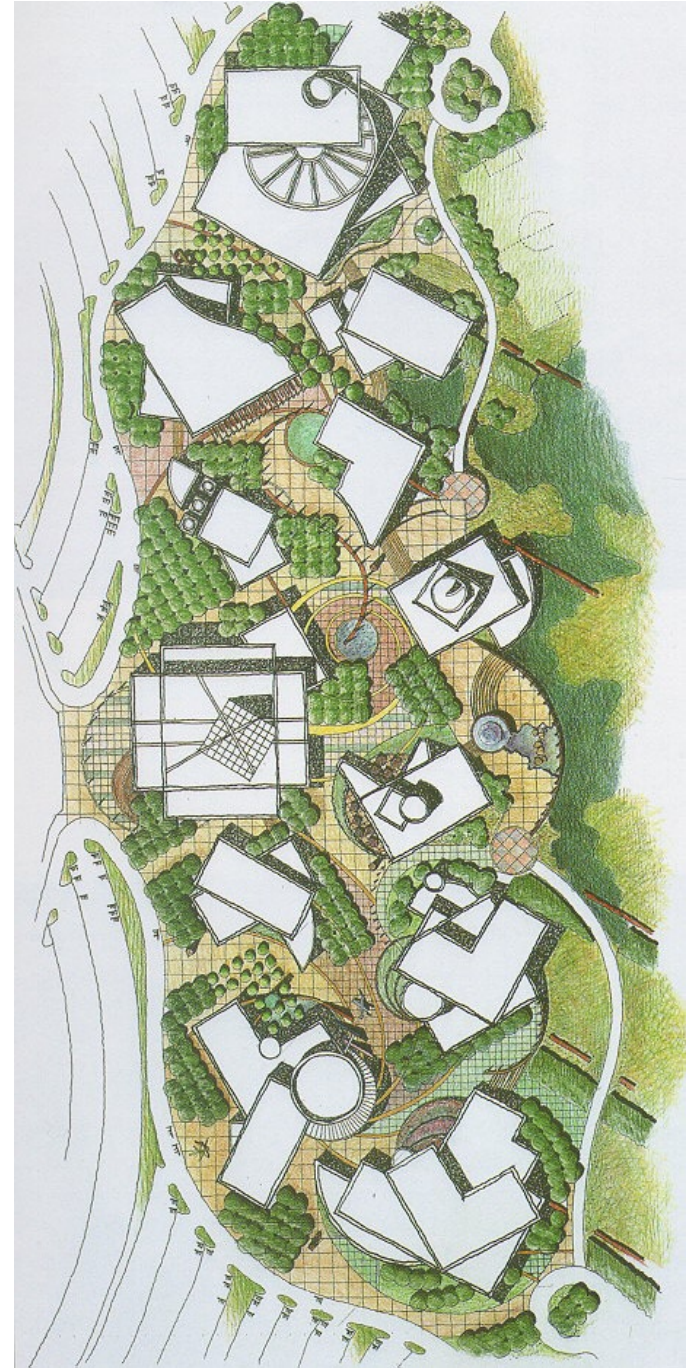
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	instructor podium			
4	whiteboards			48" x 144"
1	projection screen			
500	auditorium seats, tablet arm			
	ceiling projection mounts			
movable furnishings				
2	waste cans			14"
equipment				
1	clock linked to campus master			
1	VCR			
1-2	DVD players			
1	document camera			
1	permanent in-room computer			
1	switching system			
	audio speakers			
	audio amplifier			
space notes				

Will require space for demonstration materials such as mannikins, skeletons, and models. May initially be used for multipurpose functions as the campus currently has no gathering space of similar capacity.



01 auditorium / large lecture hall lecture hall
slcc jordan campus health sciences center





slcc jordan campus health sciences center

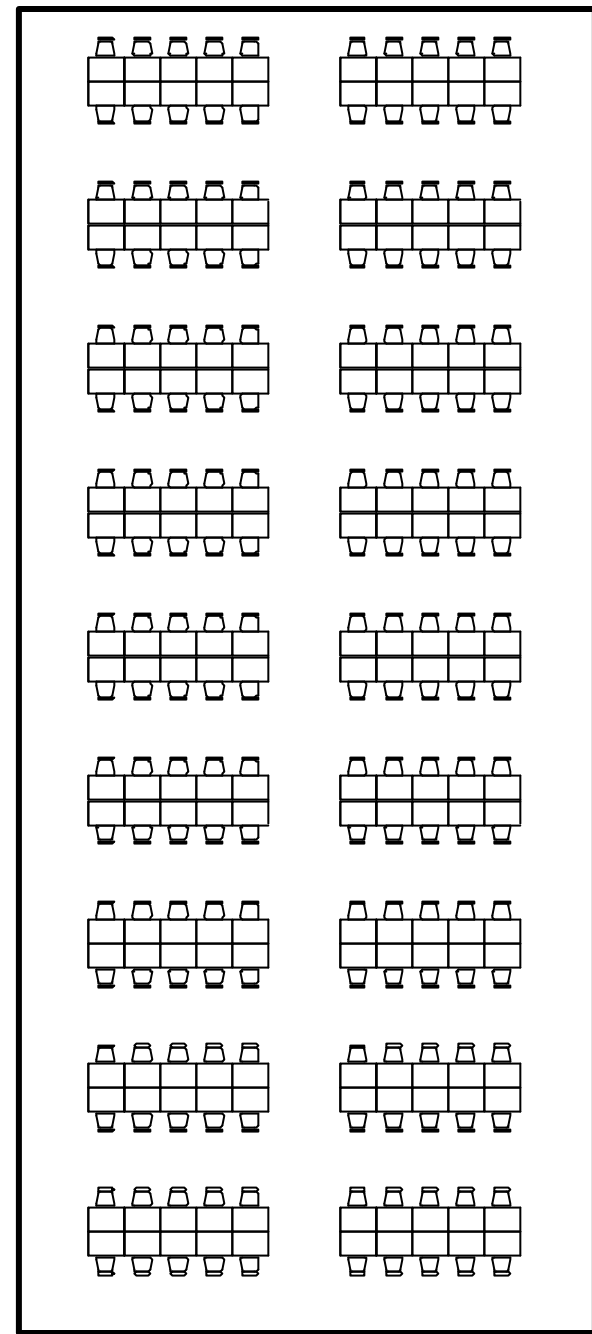


#	space	user capacity	quantity	nsf each	total nsf	total unassignable sf	total gsf
01	Open student computer work areas	175	1	6,125	6,125		6,125
02	Large conference	20	1	400	400		400
03	Medium conference	10-12	4	250	1,000		1,000
04	Small-group study	6	8	125	1,000		1,000
05	Exhibit / display		1	300	300		300
06	Lounge / study seating	150	150	18	2,700		2,700
07	Private professional consultation room	1-6	4	150	600		600
08	Faculty/staff work/ copy		4	150	600		600
09	Faculty/student group interaction		4	150	600		600
10	Faculty/staff break room		4	150	600		600
11	Locker/shower/change		1	1,200	1,200		1,200
12	Open exercise area		1	500	500		500
13	Aerobic / fitness room		1	1,500	1,500		1,500
TOTALS					16,925		16,925

summary	
space type	open study seating
net sf each space	6,125 sf
total of this type	1
assigned users	none
visitors	175
functions	provide space for individual student computer use and study
location and relationships	
location	distribute on all 4 levels
proximity	convenient access from classrooms
access	convenient access
security	security for equipment
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	capacity
data	175 computer work stations
video/tv	capacity

lighting	
natural light	desirable, with light control to minimize glare on computer screens
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
nc/rc	40-45
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

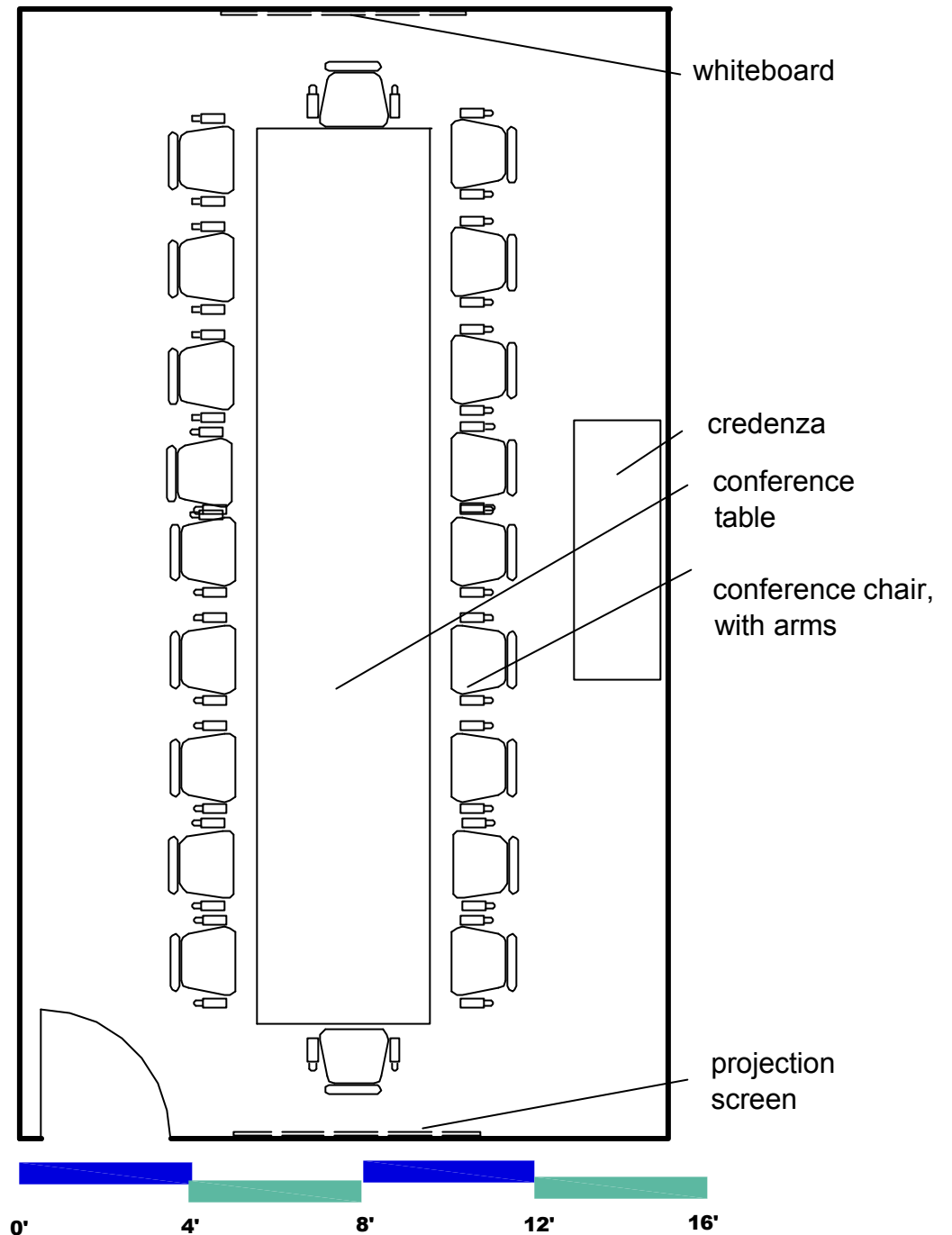
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
	waste receptacles			
175	computer tables			36" x 20"
175	study chairs, armless, on casters			
equipment				
175	desktop computers			
space notes				



summary	
space type	enclosed conference room
net sf each space	400 sf
total of this type	1
assigned users	none
visitors	20
functions	professional meeting space
location and relationships	
location	main level
proximity	dean's and directors' offices
access	administrative assistant, reception, waiting
security	wireless keypad locking projector mount
finish	see Jordan Campus Design Guidelines
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall; at ceiling for projection
phone	one line
data	capacity for laptops
video/tv	ceiling mounted projection video coax RG 59, S video cable RS 32, IR control, 2 VGA cables

lighting	
natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

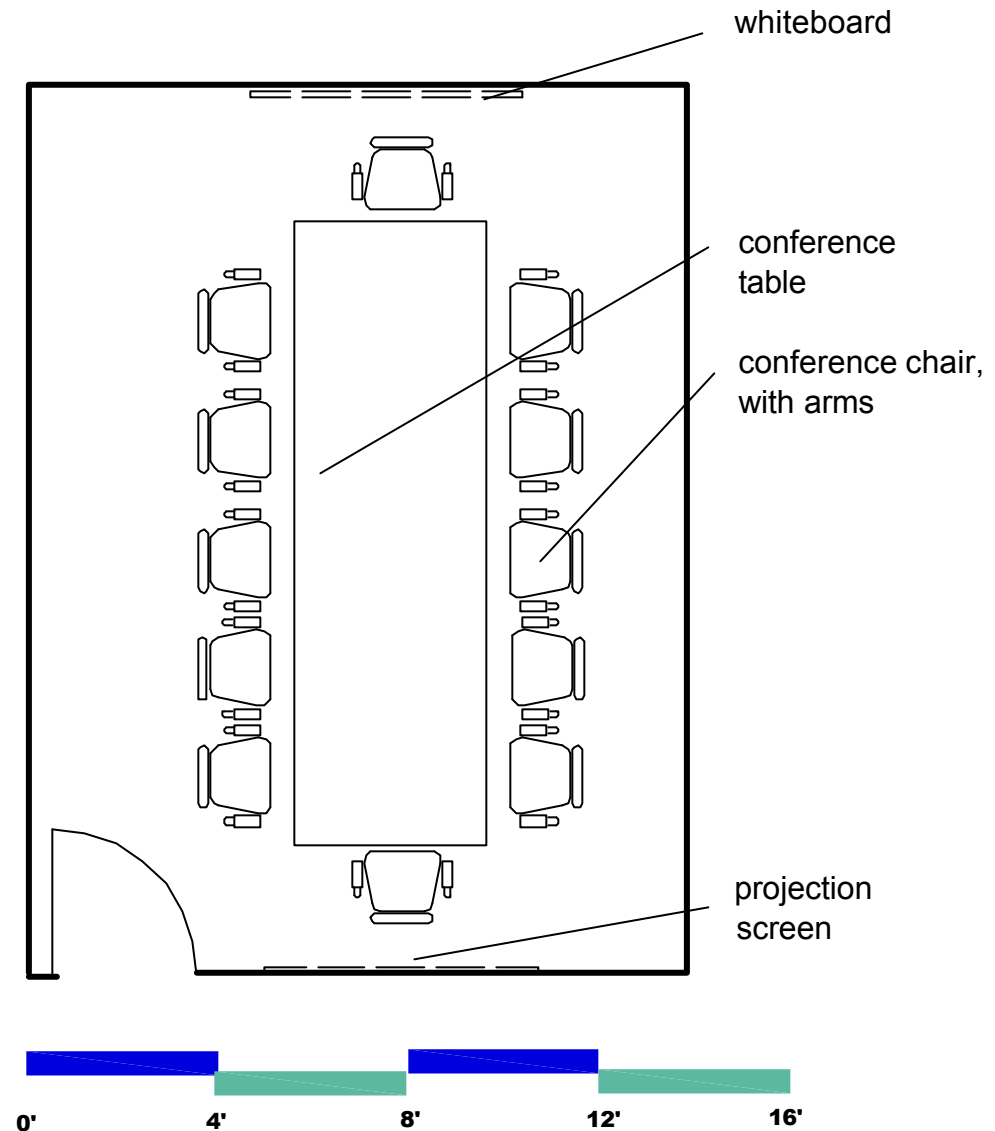
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	20-person conference table, modular			
20	conference chairs, armless, on casters			
1	credenza			
equipment				
12	laptops			
1	VCR			
1-2	DVD player			
1	document camera			
1	switching system			
	audio speakers			
	capacity for smart board			
space notes				



summary	
space type	enclosed conference room
net sf each space	250 sf
total of this type	4
assigned users	none
visitors	20
functions	professional meeting space
location and relationships	
location	one per floor
proximity	faculty office and work areas
access	convenient access
security	wireless keypad locking projector mount
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall; at ceiling for projection
phone	one line
data	capacity for laptops
video/tv	ceiling mounted projection video coax RG 59, S video cable RS 32, IR control, 2 VGA cables
lighting	

natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	at primary work surface
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	yes
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

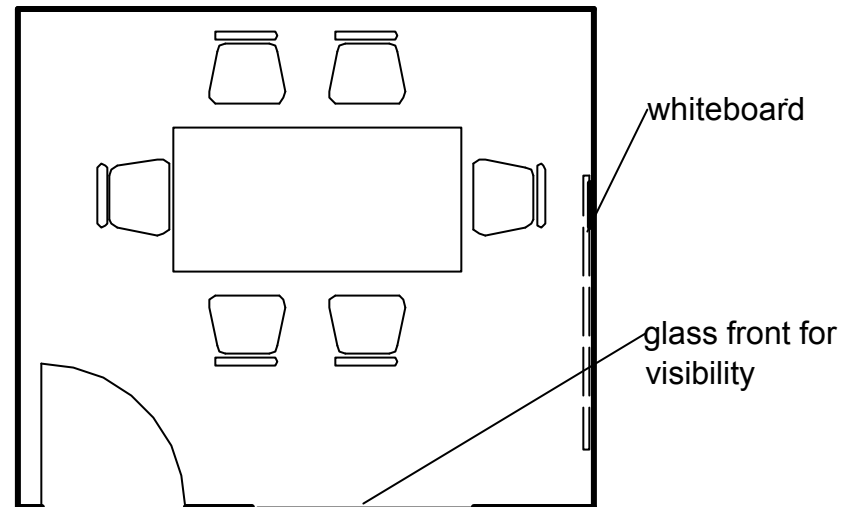
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	20-person conference table, modular			
12	conference chairs, armless, on casters			
equipment				
12	laptops			
1	VCR			
1-2	DVD player			
1	document camera			
1	switching system			
	audio speakers			
	capacity for smart board			
space notes				



summary	
space type	enclosed conference room
net sf each space	125 sf
total of this type	8
assigned users	none
visitors	1 -6
functions	provide space for student groups to work and study
location and relationships	
location	two per floor
proximity	
access	
security	lock not required
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board glazing to allow visibility
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	capacity
data	capacity for laptops
video/tv	capacity

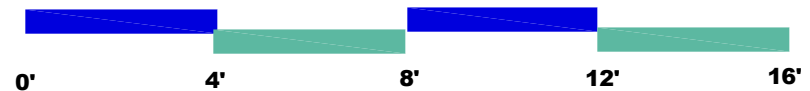
lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	
task lights	no
controls	auto sensor
sound control	
nc/rc	50-55
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
movable furnishings				
1	waste can			
1	6-person conference table			
6	conference chairs, armless, on casters			
equipment				
6	laptops			
space notes				



Provide a space that can easily be converted to 2 faculty offices in the future.

Can be combined with other similar areas to create a single larger space

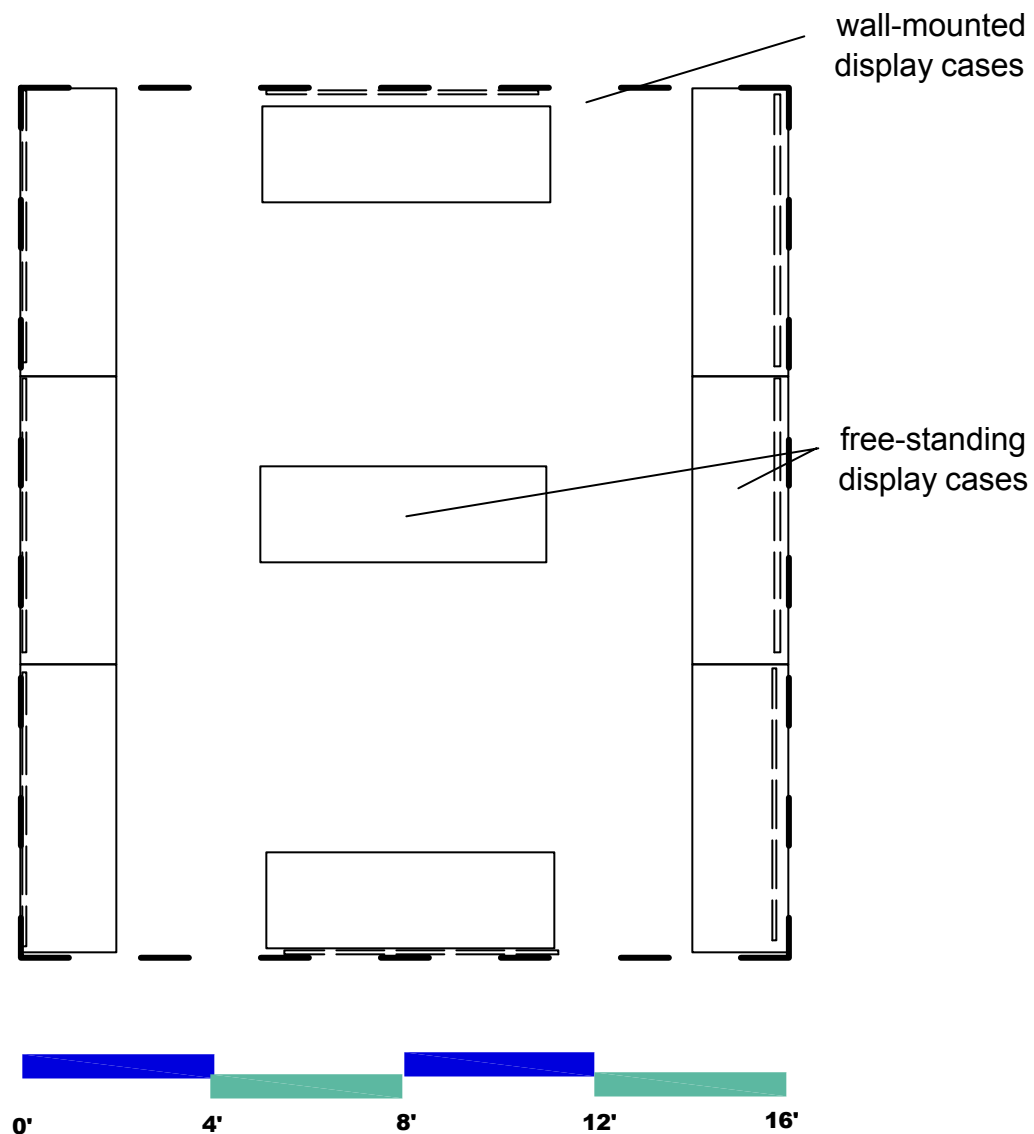


summary	
space type	open display area
net sf each space	300 sf
total of this type	1
assigned users	none
visitors	30
functions	provide cases and hanging space to display information about the health sciences programs
location and relationships	
location	main level
proximity	prominent public location adjacent to main building entry
access	near open student computer areas, study spaces, and other gathering points; convenient access to permit administrative staff to mount and change displays
security	lockable display cases
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall;
phone	not required
data	capacity for computer kiosks

video/tv	capacity
lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	display lighting
task lights	no
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	display cases			
	wall mounted, glass enclosed posting boards			
	hanging system for framed items			
	literature rack			
movable furnishings				
equipment				
space notes				

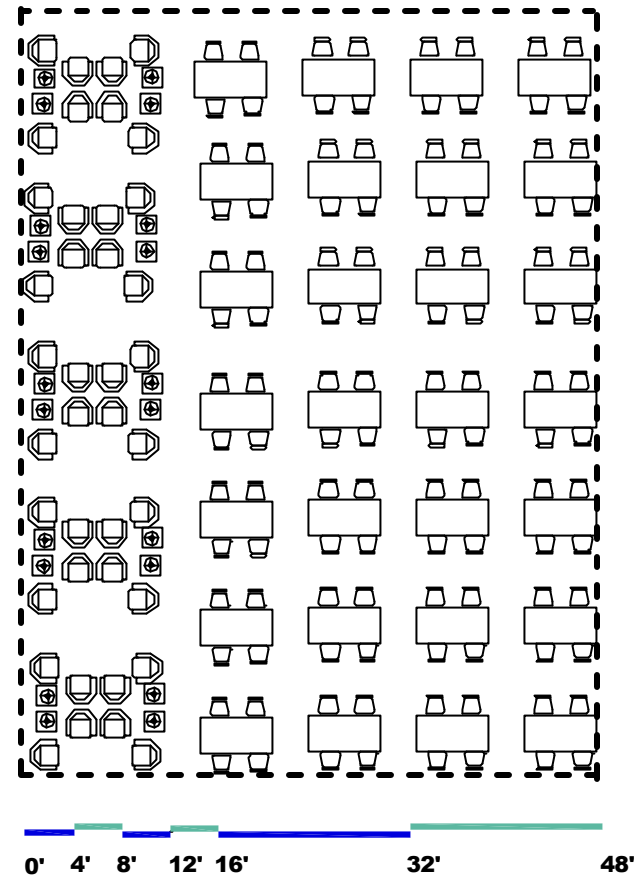
Displays could include models and mannikins, printed materials, program requirements, boards from scientific exhibitions, and materials in other media formats. Space should include capacity for digital kiosks or other digital information display. This area could also provide opportunity for donor recognition.



summary	
space type	open seating area
net sf each space	2,700 sf
total of this type	distributed throughout building
assigned users	none
visitors	150
functions	provide space for informal study and interaction
location and relationships	
location	distribute on all levels
proximity	classrooms, labs, student support areas, vending
access	convenient access for students in all programs
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for future use
data	support for student laptops
video/tv	capacity for future use

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	lamps at lounge seating
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
	waste cans			
28	4- person study tables			
40	lounge chairs			
76	study chairs, on casters, armless			
20	end tables			
equipment				
152	laptop computers			
20	table lamps			
space notes				
Provide a variety of environments for individual and small group study.				



summary

space type	enclosed conference room
net sf each space	150 sf
total of this type	4
assigned users	none
visitors	1 -6
functions	professional meeting space

location and relationships

location	one each level
proximity	cluster with faculty office and work areas
access	convenient access for students and visiting professionals
security	wireless keypad

finish

see Jordan Campus Design Guidelines

materials & finish	static-free carpet painted gypsum board
--------------------	--

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall; at ceiling for projection
phone	one line
data	capacity for laptops
video/tv	capacity

lighting

natural light	yes
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	none
controls	auto sensor

sound control

nc/rc	50-55
full sound walls	yes

mechanical

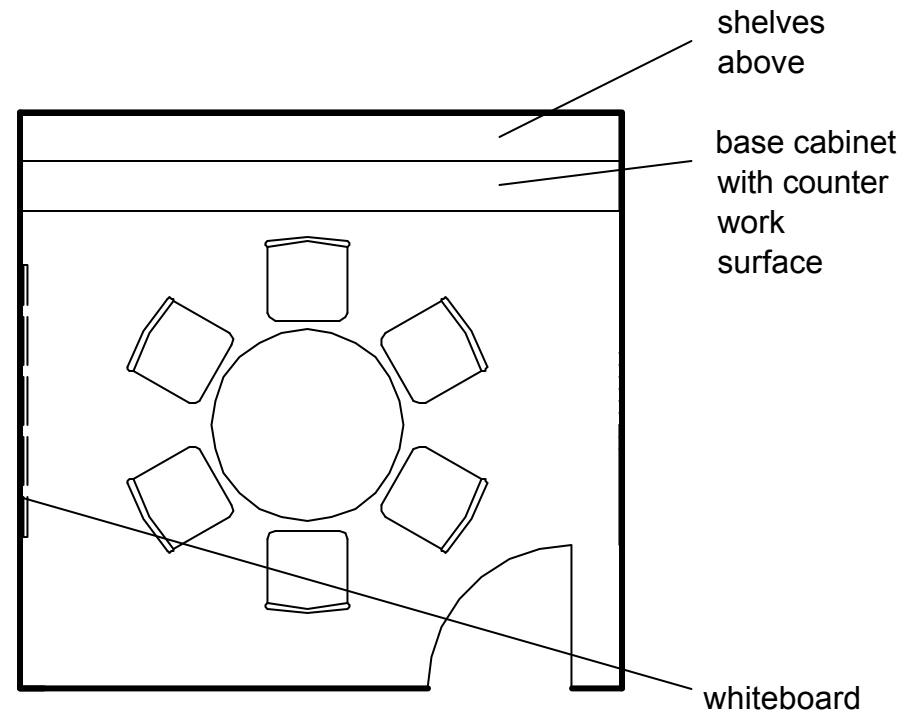
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

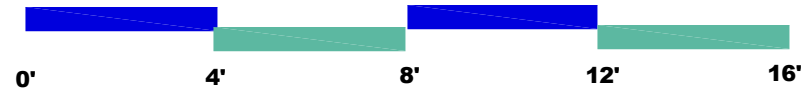
	none
--	------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboard with frame and tray			48" x 36"
1	base cabinet with counter work surface			
1	wall-mounted shelves			
movable furnishings				
1	waste can			
1	4-person conference table			
4	conference chairs, with arms. on casters			
equipment				
4	laptops			
	capacity for smart board			
space notes				

This space will provide a meeting area for visiting professionals who have no assigned office space but may need to consult with students, faculty, or clinic patients in a private environment.



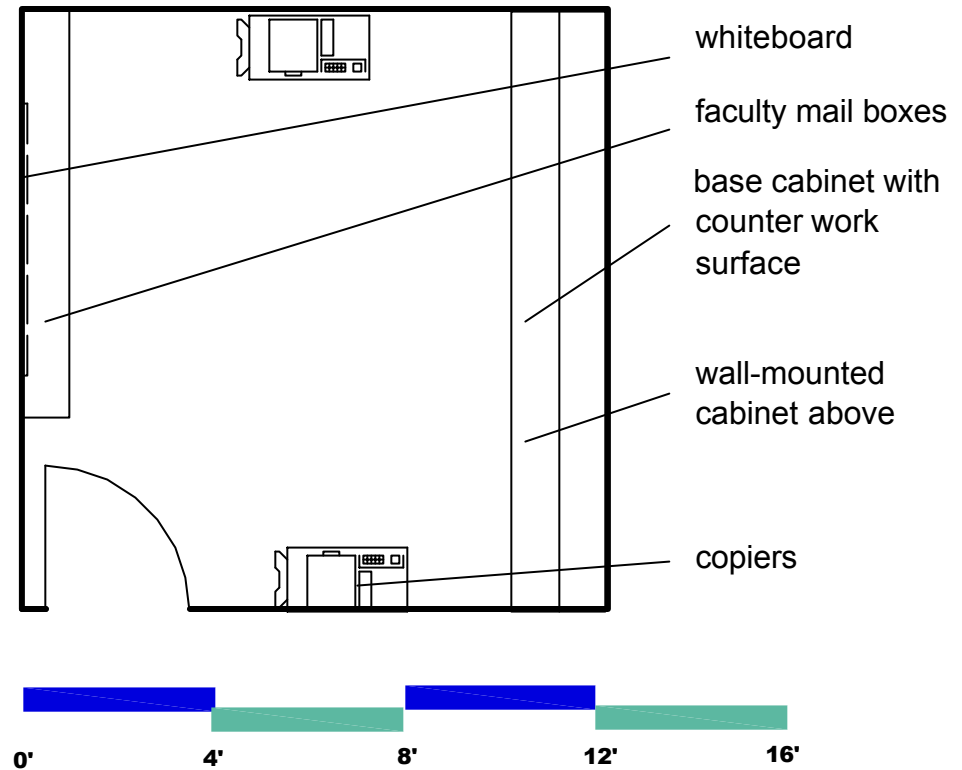
Provide privacy for confidential transactions



summary	
space type	faculty work/copy area
net sf each space	150
total of this type	4
assigned users	0
visitors	faculty
functions	provide suport to faculty office areas
location and relationships	
location	one each level
proximity	central to faculty offices, adjunct work areas, and small conference / growth areas
access	limited to faculty, adjuncts, and visiting professionals
security	wireless keypad
finish	
see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	capacity for fax
data	at work area

video/tv	not required
lighting	
natural light	no
foot candles	30 general; 75 filing tasks
fixture types	
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none
hazardous materials	

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface, adjustable shelving			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
	faculty mail boxes			
movable furnishings				
1	waste receptacle, large			
equipment				
1	photocopier			
1	fax			
space notes				

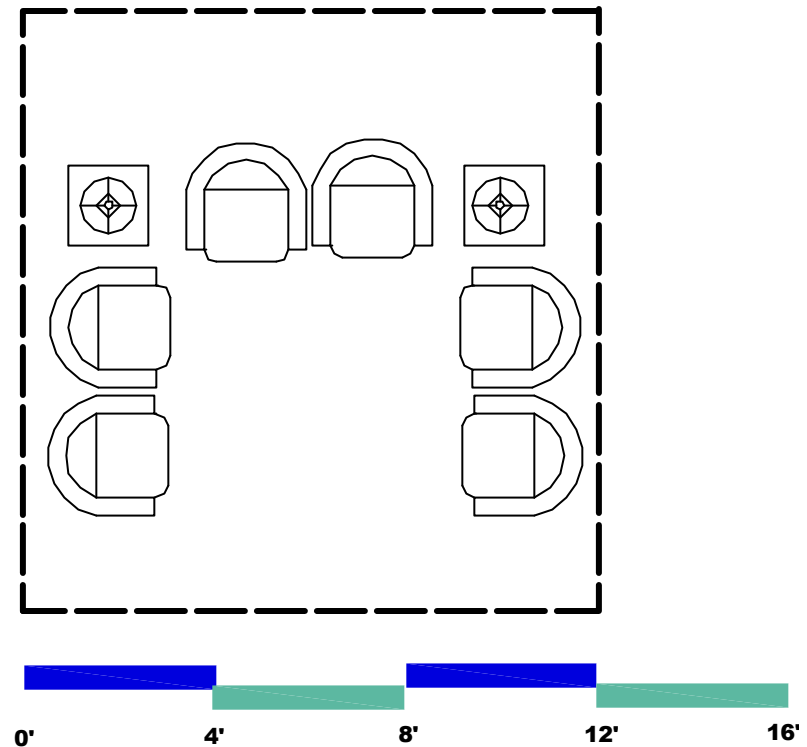


summary	
space type	open seating area
net sf each space	150 sf
total of this type	4
assigned users	none
visitors	1-6
functions	provide space for informal interaction
location and relationships	
location	distribute on all levels
proximity	adjacent to faculty offices
access	convenient access for students in all programs
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for future use
data	support for student laptops
video/tv	capacity for future use

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	lamps at lounge seating
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	waste can			
6	lounge chairs			
2	end tables			
equipment				
6	laptop computers			
2	table lamps			
space notes				

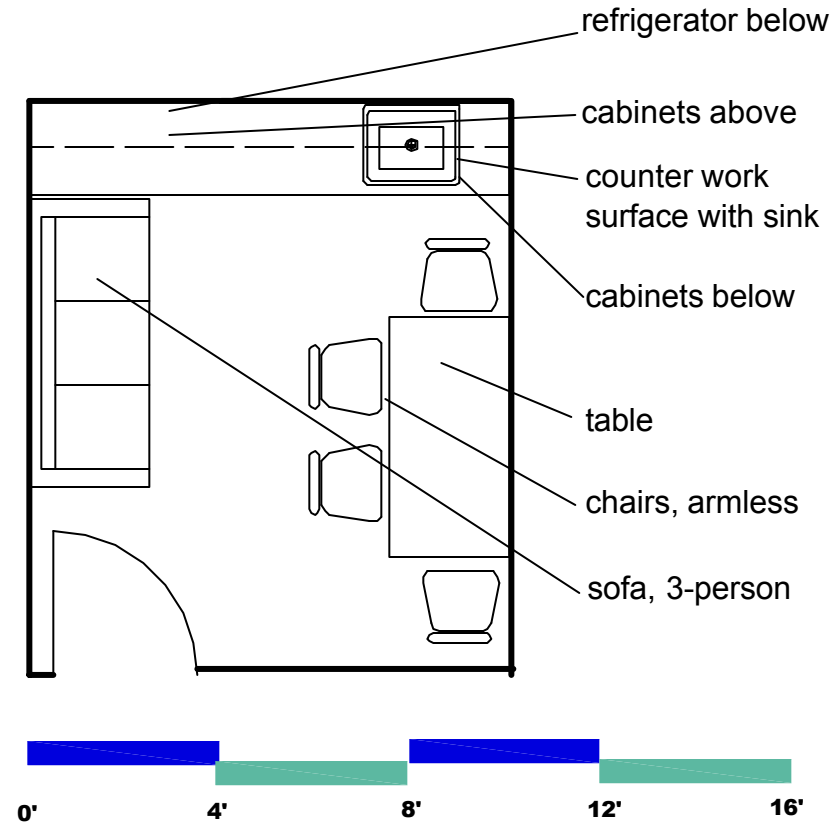
This space should be designed to foster and support small ad hoc groups of faculty and students meeting for informal discussion. It should be located adjacent to faculty office and work/copy areas.



summary	
space type	staff break
net sf each space	120
total of this type	4
assigned users	0
visitors	faculty and staff
functions	provide a break area for staff
location and relationships	
location	one per floor
proximity	cluster with faculty support spaces
access	convenient access for staff; separated from public areas
security	wireless keypad
finish <small>see Jordan Campus Design Guidelines</small>	
materials & finish	painted gypsum board static-free carpet or hard-surface flooring
electrical <small>plus capacity for equipment listed below</small>	
power	minimum one double duplex outlet every 12', with at least one on every wall. Additional capacity as required for equipment listed.
phone	one line
data	capacity for future use

video/tv	not required
lighting	
natural light	desirable
foot candles	30 general; 75 filing tasks
fixture types	direct / indirect
task lights	not required
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	hot and cold water, sink
hazardous materials	
	none

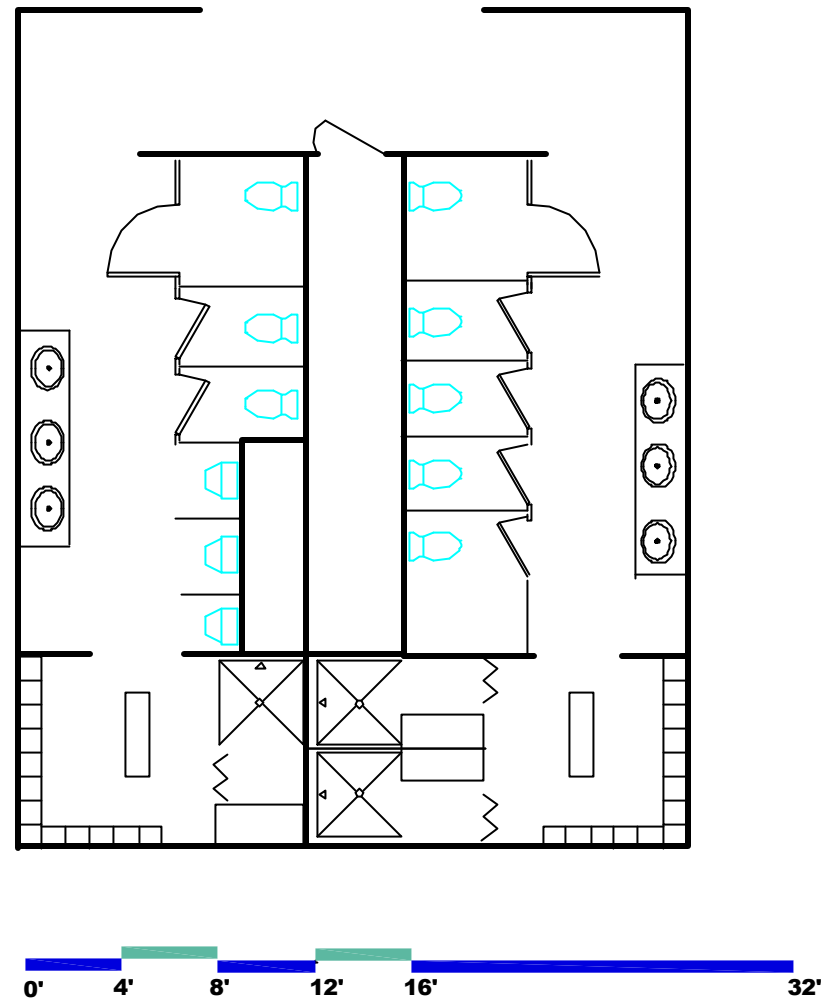
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
10 lf	base cabinet, lockable, with counter work surface and sink, adjustable shelving below			24" x 10'
10 lf	wall-mounted cabinets, lockable, adjustable shelving			12" x 10'
1	tack board / tack surface			
10 lf	open adjustable shelving			12" x 10'
movable furnishings				
1	table, round			42" diameter
4	side chairs, armless, upholstered			20" x 20" approx.
1	waste receptacle, large			
equipment				
1	undercounter refrigerator			
1	microwave			
space notes				



summary	
space type	fully accessible locker/shower/ changing area
net sf each space	1,200 sf
total of this type	distribute on floors with lab classes
assigned users	none
visitors	1
functions	provide fully accessible restroom facilities for patients at wellness center
location and relationships	
location	all 4 levels adjacent to or combined with restroom areas
proximity	lab classes
access	accessible to all students
finish	
see Jordan Campus Design Guidelines	
materials & finish	no-slip tile painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor
sound control	
stc	45-50
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	showers, lavatories, floor drain

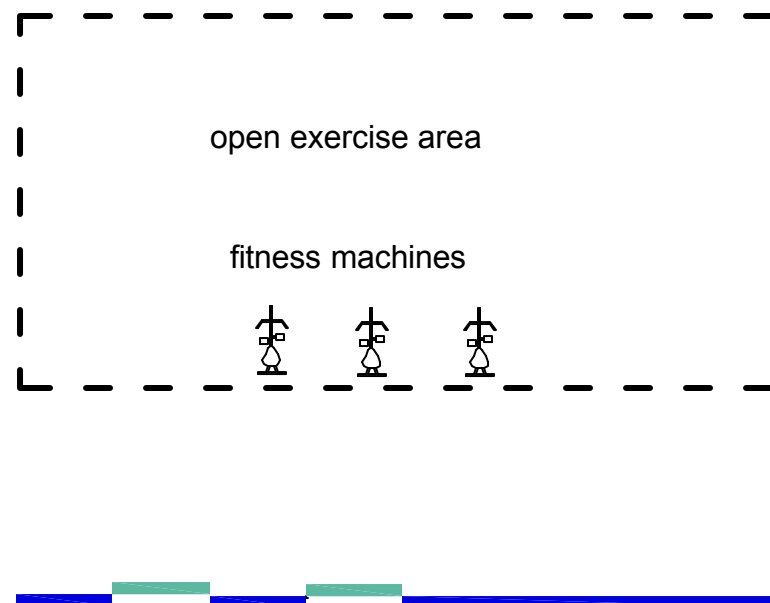
qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
6	lavatory with base cabinet			
	wall-mounted mirror			
48	half height lockers			
	locker bench			
	shower with dressing area			
movable furnishings				
1	waste can			
equipment				
	capacity for personal equipment such as hair dryers			
space notes				



summary	
space type	open exercise area
net sf each space	500 sf
total of this type	1
assigned users	none
visitors	150
functions	provide space for exercise
location and relationships	
location	lower level
proximity	aerobic/fitness room
access	convenient access for students in all programs
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	capacity for future use
data	support for student laptops
video/tv	capacity for future use

lighting	
natural light	desirable
foot candles	30 general; 75 for reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	30
full sound walls	not required
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	exercise equipment			
space notes				
Space should include open floor area for exercise as well as power to support exercise machines.				

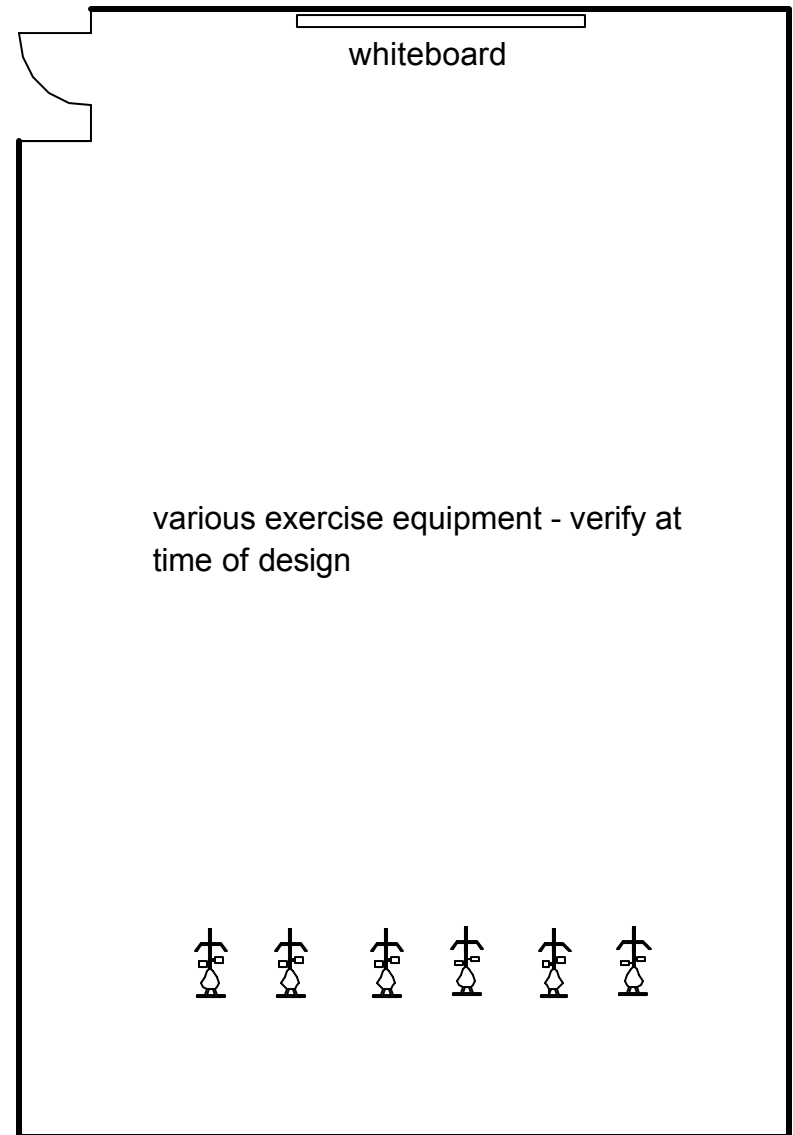


summary	
space type	exercise room
net sf each space	1,500
total of this type	1
assigned users	none
visitors	visiting professionals
functions	physical education
location and relationships <small>see drawing, page</small>	
location	lower level
proximity	PTA classroom, secondary lap, hydrotherapy, pool room, OTA/PTA clinic reception
access	storage, faculty office and work areas
security	department control of equipment and models
finish <small>see also Design Guidelines</small>	
materials & finish	gypsum board, static-free carpet 3' door with 2' inactive leaf for moving bulky equipment
electrical <small>plus capacity for equipment listed below</small>	
power	min. 2 double duplex front and rear, 1 double duplex each side wall; all outlets double duplex; wall outlets placed high; electrical raceways in floor
phone	Internet access
data	hook-ups for student laptops;
video/tv	ceiling mounted camera EDNET send and receive capacity

lighting	
natural light	desirable with light control for a/v
foot candles	10-15 at board surface 30 general; 75 for reading tasks; lighting for EDNET projection
fixture types	direct/indirect general illumination
controls	auto sensor
sound control	
stc	45-50
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink with tall gooseneck faucet; casting drum

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	whiteboards			48" x 72"
	ceiling camera mounts			
	tack strips			
	tack boards			
	wall-mounted cabinets with adj. shelves			
	base cabinets with counter work surface			
movable furnishings				
1	multistation exercise gym			large footprint
equipment see department equipment list for complete details				
	various swings,weights, forms, wedges, bolsters, dumbbells, balls, and other exercise equipment			
space notes				

Minimum ceiling height 9'-0"; 10'-0" preferable for equipment clearance.



13 commons

aerobics / fitness room

slcc jordan campus health sciences center



building support
slcc jordan campus health sciences center

Salt Lake
Community
College



laura bayer architectural planning and programming / hfs architects **DFCM #03047640**

559

slcc jordan campus health sciences center



#	space	user capacity	quantity	nsf each	total nsf	total unassignable sf	total gsf
01	Restrooms		51	65		3,315	3,315
02	Vending		4	100		400	400
03	Custodial		4	100		400	400
04	Building Operations Suite		1	700	700		700
05	Mechanical		1	10,360		10,360	10,360
06	Main Telecommunication		1	150		150	150
07	Phone / Data Rooms		4	100		400	400
08	Server Farm		1	300		300	300
09	Main Electrical		1	150		150	150
10	Electrical Rooms		4	100		100	100
11	Building Storage		4	450		1,800	1,800
12	Circulation and Access		1	22,200		22,200	22,200
13	Medical Gas		1	400		400	400
14	Dock/Receiving		1	200		200	200
TOTALS					700	40,475	41,175

summary

space type	restrooms
net sf each space	65 sf per person
total of this type	51 (see Code Review)
assigned users	none
visitors	1
functions	provide fully ADA compliant restroom facilities

location and relationships

location	all levels
proximity	locker shower change areas
access	convenient access from all building areas

finish

see Jordan Campus Design Guidelines

materials & finish	no-slip floor tile ceramic tile wainscot painted gypsum board
--------------------	---

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting

natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor

sound control

stc	45-50
full sound walls	not required

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	wc; lavatory; floor drain
--	---------------------------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	lavatory, vitreous china with base cabinet; counter of durable hard surface material			18" x 22" minimum
1	wall-mounted mirror, with shelf, over lavatory			
1	water closet, vitreous china, wall mounted			
	urinal, waterless			substitute for wc per code
	urinal screen, wall mounted (phenolic, stone, stainless steel, or solid plastic)			24" x 18" minimum
	grab bars, pipe shields, and other as required to comply with ADA			
	dispensers for soap, towels, toilet paper, sanitary napkins			per mfr
	waste receptacles, metal			36" high
movable furnishings				
equipment				
	capacity for personal equipment such as hair dryers			
space notes				

summary

space type	vending
net sf each space	100
total of this type	4
assigned users	none
visitors	
functions	provide hot and cold beverages and snacks for sale

location and relationships

location	all levels, enclosed but not hidden
proximity	central
access	convenient access from all building areas

finish

see Jordan Campus Design Guidelines

materials & finish	hard surface flooring (vinyl and linoleum tile not acceptable in machine areas) painted gypsum board
--------------------	---

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting

natural light	not required
foot candles	30 general
fixture types	
task lights	no
controls	auto sensor

sound control

stc	45-50
full sound walls	if adjacent to occupied space

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	floor drain water line for coffee machine
--	--

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	wall-mounted counter			
movable furnishings				
	waste receptacles, large			
	recycling containers, large			
equipment				
2	coke machines, with capacity for 20 oz resealable bottles			30" x 36" 80" high
2	Pepsi machines, with capacity for 20 oz resealable bottles			32" x 39" 73" high
2	canteen type snack machines			35" x 38" 73" high
1	milk machine			26" x 35" 73" high
1	coffee machine			31" x 3** 72" high
	microwave			
space notes				

summary

space type	enclosed
net sf each space	100
total of this type	4
assigned users	custodial staff
visitors	none
functions	provide storage and supplies for custodial staff

location and relationships

location	all levels
proximity	central
access	convenient access from all building areas

finish

see Jordan Campus Design Guidelines

materials & finish	hard surface flooring painted gypsum board
--------------------	---

electrical

plus capacity for equipment listed below

power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	none
data	none
video/tv	none

lighting

natural light	not required
foot candles	30 general
fixture types	fluorescent
task lights	no
controls	auto sensor

sound control

stc	45-50
full sound walls	if adjacent to occupied space

mechanical

outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	yes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat

plumbing

	floor drain mop sink
--	-------------------------

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	mop sink			36" x 36"
1	mop and broom rack, wall mounted			
1	double prong coat hook			
1	tack board/tack surface			24" x 48"
movable furnishings				
	waste receptacles, large			
1	steel industrial shelf unit, 7 shelves			18" x 48"
equipment				
1	capacity for laptop			
	misc. cleaning equipment and supplies			
space notes				

summary	
space type	enclosed
net sf each space	700
total of this type	1
assigned users	custodial staff
visitors	none
functions	provide office, work, and file area
location and relationships	
location	lower level
proximity	with other office and work areas
access	convenient access from all building areas
finish	
see Jordan Campus Design Guidelines	
materials & finish	static-free carpet painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall
phone	at each work station
data	at each work station
video/tv	none
lighting	
natural light	desirable

foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	at work surface
controls	auto sensor
sound control	
stc	45-50
full sound walls	Full sound walls not required; use staggered outlets and sound boots on return air to minimize noise transmission.
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
100% exhaust	in work/copy area
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	sink

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
1	wall-mounted cabinet			10 ‘ x 12”
1	base cabinet with counter work surface w/ sink			10’ x 24”
movable furnishings				
2	waste receptacles, large			
4	file cabinets, 4 drawer letter			
2	waste can			30’ x 60”
2	work surface			24” x 60”
2	work surface			24” x 30”
2	work surface			24” x 60”
2	work surface, angled corner			24” x 30”
6	letter sized file pedestals			15” x 29”
1	shelf unit, 4 shelves			12” x 60”
2	work station coat hook, keyboard shelf, task light			
2	work chair, armless, on casters			27” x 28”
2	side chair, armless			20” x 20”
	conference table, 6 person			
6	conference chairs			
equipment				
2	desktop computer			
1	photocopier			
1	fax			
space notes				

summary	
space type	enclosed
net sf each space	10,360
total of this type	
assigned users	none
visitors	building support staff
functions	accommodate mechanical equipment, piping, ductwork, and control systems
location and relationships	
location	main area lower level
proximity	no mechanical rooms over occupied assignable space
access	convenient access from utility tunnel; central location desirable to minimize piping and ductwork
finish	
see Jordan Campus Design Guidelines	
materials & finish	sealed concrete floor and walls are acceptable painted gypsum board enhanced with color durable, easily maintained surfaces floor sloped to drain
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
phone	none
data	at control areas
video/tv	none

lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	if adjacent to occupied space
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
exhaust	min 10 air changes
fume hoods	no
gases	no
summer design temp	
winter design temp	heat to 65 ⁰ F
controls	DDC, individual thermostat
plumbing	
	floor drains, pumps, piping see Mechanical Program

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	see Mechanical Systems Program			
space notes				

summary	
space type	enclosed
net sf each space	150
total of this type	1
assigned users	none
visitors	building support staff
functions	provide central distribution for building telecommunication and data systems
location and relationships	
location	lower level
proximity	stacked with telecommunication rooms on upper levels separate from electrical rooms
access	convenient access from utility tunnel; central location desirable to minimize piping and ductwork
finish	
see Jordan Campus Design Guidelines	
materials & finish	sealed concrete floor and walls are acceptable painted gypsum board durable, easily maintained surfaces
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
back-up generator	independent AC, 24-hour cooling
phone	none

data	at control areas
video/tv	none
lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
exhaust	min 10 air changes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	see Electrical and Technical Systems Program			
space notes				

summary	
space type	enclosed
net sf each space	100
total of this type	4
assigned users	none
visitors	building support staff
functions	provide central distribution for building telecommunication and data systems
location and relationships	
location	lower level
proximity	stacked with other telecommunication rooms separate from electrical rooms
access	convenient access from utility tunnel; central location desirable minimum 36" clear around all panels
finish	
see Jordan Campus Design Guidelines	
materials & finish	sealed concrete floor and walls are acceptable painted gypsum board durable, easily maintained surfaces
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
back-up generator	independent AC, 24-hour cooling
phone	none

data	none
video/tv	none
lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
exhaust	min 10 air changes
fume hoods	no
gases	no
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	see Electrical and Technical Systems Program			
space notes				

summary	
space type	enclosed equipmnet area
net sf each space	300
total of this type	1
assigned users	none
visitors	technical support staff
functions	provide space for file servers
location and relationships	
location	lower level
proximity	stacked with computer areas separate from electrical rooms 3'-0" clear at ends and sides of racks
access	telecommunications rooms
finish	
see Jordan Campus Design Guidelines	
materials & finish	raised access flooring painted gypsum board
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
back-up generator	independent AC, 24-hour cooling
phone	one
data	servers
video/tv	none

lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	fluorescent with electronic ballast
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
ideal environment	temperature between 32° F and 98° F, with variance no more than 10° F, optimum 68° F; humidity 35 -45 RH; mist system for fire suppression; air circulation for equipment ideally blown up through racks
summer design temp	68° F
winter design temp	68° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
6	equipment racks			19" x 24", 72" high
equipment				
	file servers (desktop computers)			
space notes				

summary	
space type	enclosed
net sf each space	150
total of this type	1
assigned users	none
visitors	building support staff
functions	provide central distribution for building electrical systems
location and relationships	
location	lower level
proximity	stacked with electrical rooms separate from telecommunications
access	convenient access from utility tunnel; central location desirable to minimize piping and ductwork
finish	
see Jordan Campus Design Guidelines	
materials & finish	sealed concrete floor and walls are acceptable painted gypsum board durable, easily maintained surfaces
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
phone	none
data	at control areas
video/tv	none

lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
ventilation	ventilation for cooling to 80° F
summer design temp	80° F
winter design temp	65° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	see Electrical and Technical Systems Program			
space notes				

summary	
space type	enclosed
net sf each space	100
total of this type	4
assigned users	none
visitors	building support staff
functions	provide central distribution for building electrical systems
location and relationships	
location	lower level
proximity	stacked with other electrical rooms cannot be combined with telecommunications rooms separate from high traffic public areas
access	convenient access from utility tunnel; central location desirable minimum 36" clear around all panels
finish	
see Jordan Campus Design Guidelines	
materials & finish	painted gypsum board durable, easily maintained surfaces troweled smooth-surface floor sealed immediately after curing
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
phone	none

data	none
video/tv	none
lighting	
natural light	not required
foot candles	30 general; 75 reading tasks
fixture types	direct/indirect
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
ventilation	ventilation for cooling to 80° F
summer design temp	80° F
winter design temp	65° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
equipment				
	see Electrical and Technical Systems Program			
space notes				

11 building support building storage slcc jordan campus health sciences center



summary	
space type	enclosed
net sf each space	450
total of this type	4
assigned users	none
visitors	building support staff
functions	provide storage for equipment, furnishings, and supplies used in the building
location and relationships	
location	on each level
proximity	separate from high traffic public areas
access	convenient access to dock , receiving, and elevator
finish	
see Jordan Campus Design Guidelines	
materials & finish	sealed concrete painted gypsum board durable, easily maintained surfaces
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets
phone	none
data	at control areas
video/tv	none

lighting	
natural light	not required
foot candles	30 general
fixture types	fluorescent with electronic ballast
task lights	no
controls	auto sensor
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
summer design temp	80° F
winter design temp	68° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
	steel industrial shelving units, full height			6' x 24"
equipment				
space notes				

12 building support circulation & access slcc jordan campus health sciences center



summary	
space type	open circulation, stairs, elevators, lobbies
net sf each space	22,200
total of this type	1
assigned users	none
functions	provide for the movement of people and goods through the building
location and relationships	
location	on each level
proximity	convenient access to all building areas
access	connections to main campus pedestrian plaza, sidewalks, and service access
finish	
see Jordan Campus Design Guidelines	
materials & finish	wainscot to 4' of durable, wear-resistant material painted gypsum board above 4' durable, easily maintained surfaces carpet tile or durable hard-surface material in heavy wear areas
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets; outlets in stairwells for cleaning; power-assisted doors
phone	public phone banks
data	capacity for laptop use, information kiosks, and csshiering kiosks

video/tv	none
lighting	
natural light	yes
foot candles	15 / 30 general
fixture types	direct/indirect
task lights	at directories, phones, lobby areas
controls	auto sensor control over-rides in administrative area
sound control	
stc	
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	drinking fountains

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
2	hospital type elevators			
	public telephones			
	drinking fountains			
	posting and display boards, glass enclosed			
	clocks linked to campus master			
movable furnishings				
	waste receptacles, large			
	recycling containers, large			
equipment				
	cleaning equipment			
	entry mats			
space notes				

summary	
space type	enclosed storage area
net sf each space	400
total of this type	1
assigned users	none
functions	provide storage for medical gas canisters
location and relationships	
location	
proximity	nursing arts lab critical care lab wellness center surgical technology lab medical assisting labs compressor and vacuum/suction
access	regular staff access to change filters, provide maintenance, and replace spent canisters
finish	
see Jordan Campus Design Guidelines	
materials & finish	durable, wear-resistant material painted gypsum board sealed concrete or hard surface flooring
electrical	
plus capacity for equipment listed below	
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets;
phone	none
data	none
video/tv	none

lighting	
natural light	not required
foot candles	15 / 30 general
fixture types	direct/indirect
task lights	none
controls	auto sensor
sound control	
stc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	piped oxygen, compressed air, vacuum

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
	code-mandated restraints for gas canisters			
movable furnishings				
equipment				
	gas canisters			8" diameter 60-66" tall
space notes				

summary	
space type	enclosed storage area
net sf each space	200
total of this type	1
assigned users	none
functions	provide receiving area for materials arriving at dock; include work area for processing paperwork
location and relationships	
location	
proximity	dock, elevators
access	building support staff
finish	
	see Jordan Campus Design Guidelines
materials & finish	durable, wear-resistant material painted gypsum board sealed concrete or hard surface flooring
electrical	
	plus capacity for equipment listed below
power	minimum one double duplex every 12', with at least 2 per wall at front and rear, 1 each side wall, two 220 outlets;
phone	yes
data	at work station
video/tv	none

lighting	
natural light	not required
foot candles	15 / 30 general/ 75 reading tasks
fixture types	direct/indirect
task lights	none
controls	auto sensor
sound control	
stc	30
full sound walls	no
mechanical	
outdoor air min cfm/person	20
air circulation min cfm/person	20
summer design temp	75° F
winter design temp	72° F
controls	DDC, individual thermostat
plumbing	
	none

qty per room	item	in contract		dimensions
		y	n	
built-in fixtures				
movable furnishings				
1	small desk or work surface			30" x 48"
1	work chair, armless, on casters			
1	file cabinet, 4 drawer, letter size			15" x 29"
equipment				
1	desktop computer			
space notes				

14 building support

dock / receiving

slcc jordan campus health sciences center



#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
---	------------	------------------	--------------	-----------------	--------------	-------------	-----------	--------------------	-----------

BIOTECHNOLOGY TECHNICIAN/ PRE BIOTECHNOLOGY

1	Classroom	40	1		1	1,200	1,200		1,200
2	Class Lab	20-24	1		1	1,400	1,400		1,400
3	Cell Culture Lab	16-18	1		1	1,000	1,000		1,000
4	Prep Room	10	2		2	200	400		400
5	Walk-in Freezer			1	1	80	80		80
6	Walk-in Cooler			1	1	80	80		80
7	Large Equipment Room				1	400	400		400
8	Faculty Office		1	1	2	100	200		200
9	Adjunct Work Space			1	1	200	200		200
10	Small Conference/ Faculty Growth			1	1	200	200		200
11	Storage			1	1	200	200		200
12	Pre-Biotechnology growth			1	1	1,600	1,600		1,600
	SUBTOTAL				0		6,960	0	6,960

MEDICAL ASSISTANTS / MEDICAL ADMINISTRATIVE ASSISTANTS

1	Classrooms	24-36	4		4	1,080	4,320		4,320
2	Computer Lab	24	1		1	840	840		840
3	Lab - Phlebotomy	2	1		1	100	100		100
4	Lab - Microscope Stations	6	1		1	180	180		180

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
5	Lab - Central Processing Area		1		1	200	200		200
6	Restroom - specimen gathering		1		1	65	65		65
7	Simulated exam rooms	10	2		2	200	400		400
8	Simulated critical care lab	10	1		1	150	150		150
9	Simulated procedure room	10	1		1	300	300		300
10	Faculty offices	4	4		4	100	400		400
11	Small Conference/ Faculty Growth			1	1	200	200		200
12	Work/copy/storage		1		1	100	100		100
	SUBTOTAL						7,255		7,255



MEDICAL LAB TECHNICIAN

2	Faculty office	1		1	1	100	100		100
3	Small Conference/ Faculty Growth			1	1	200	200		200
	SUBTOTAL						300	0	300



NURSING (RN)

1	Small classroom	20	1		1	600	600		600
2	Large classroom	36	1	1	2	1,080	2,160		2,160
3	Nursing Arts Lab	20	1	1	2	1,790	3,580		3,580

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
4	Critical Care Lab	20	1		1	500	500		500
5	Computer lab	36	1		1	1,260	1,260		1,260
6	Storage		1		1	300	300		300
7	Director office	1	1		1	150	150		150
8	Program Coordinator Office	2	2		2	120	240		240
9	Faculty offices	19	19		19	100	1,900		1,900
10	Adjunct Work Area	10	0	10	10	50	500		500
11	Small Conference/ Faculty Growth			1	1	200	200		200
12	Lab Coordinator office	10-12	1		1	250	250		250
SUBTOTAL							11,640		11,640

OCCUPATIONAL THERAPY ASSISTANT

1	Classroom	24	1		1	720	720		720
2	Information Area		1		1	50	50		50
3	Computer Lab	24	1		1	840	840		840
4	Clinical Assessment Area	3		1	1	384	384		384
Main Lab									
5	Activities of Daily Life (ADL) Environments	12	1		1	600	600		600
6	Craft Area	12	1		1	600	600		600
7	Splint Area	12	1		1	200	200		200
8	Sensory Integration Area	12	1		1	600	600		600

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
Storage									
10	Office		1		1	100	100		100
11	Adaptive Equipment		1		1	150	150		150
12	Crafts		1		1	150	150		150
13	Splinting		1		1	50	50		50
14	Home Environment		1		1	50	50		50
15	Outdoor		1		1	100	100		100
16	Faculty Office		2		2	100	200		200
17	Small Conference/ Faculty Growth			1	1	200	200		200
SUBTOTAL							4,994		4,994



PHARMACY TECHNICIAN

1	Classroom	30		1	1	900	900		900
2	Computer lab	30		1	1	1,050	1,050		1,050
3	Simulated pharmacy	4-5		1	1	300	300		300
4	Faculty Office			1	1	100	100		100
5	Small Conference/ Faculty Growth			1	1	200	200		200
SUBTOTAL							2,550	0	2,550



PHYSICAL THERAPIST ASSISTANT

1	Classroom	36	1		1	1,080	1,080		1,080
---	-----------	----	---	--	---	-------	-------	--	-------

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
2	Main Lab	36	1		1	1,800	1,800		1,800
3	Secondary Lab		1		1	1,000	1,000		1,000
4	Cadaver Lab	36	1		1	800	800		800
5	Hydro Room			1	1	800	800		800
6	Therapeutic Pool	8		1	1	600	600		600
7	Storage		1		1	300		0	0
8	Faculty Offices	4	4		4	100	400		400
9	Small Conference/ Faculty Growth			1	1	200	200		200
SUBTOTAL							6,680		6,680

OCCUPATIONAL AND PHYSICAL THERAPY CLINIC

1	Reception/ Check-in	2		1	1	200	200		200
2	Patient Records			1	1	100	100		100
3	Professional Consultation			1	1	120	120		120
4	Work/Storage			1	1	100	100		100
5	Waiting	6		1	1	120	120		120
6	Changing / Lockers			2	2	175	350		350
7	Accessible restroom			2	2	150	300		300
8	Assistive Technology Open Practice Area			1	1	300	300		300
SUBTOTAL							1,590		1,590

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
RADIOLOGIC TECHNOLOGY									
1	Classroom	40	1		1	1,200	1,200		1,200
2	X-ray lab		1		1	400	400		400
3	Control / CR/Viewing		1		1	200	200		200
4	Dark Room	3	1		1	80	80		80
5	Storage		1		1	200	200		200
6	Faculty offices	3	2	1	3	100	300		300
7	Adjunct office			1	1	200	200		200
8	Small Conference/ Faculty Growth			1	1	200	200		200
SUBTOTAL							2,780		2,780
RADIOLOGIC SPECIALTIES									
1	Specialties Classroom	20		2	2	600	1,200		1,200
2	Instructional Computer Lab	20		1	1	700	700		700
3	Specialties Lab			1	1	400	400		400
4	Specialties Lab			1	1	200	200		200
5	Processing / Viewing Area	20	.	1	1	200	200		200
6	Mammography Lab			1	1	200	200		200
7	Changing Area			1	1	200	200		200
9	Faculty office			3	3	100	300		300
9	Adjunct work area			1	1	200	200		200
10	Specialties Storage			1	1	300	300		300

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
SUBTOTAL							3,900	0	3,900

SURGICAL TECHNOLOGY

1	Classroom	20	1		1	600	600		600
2	Operatory Lab	20	1		1	1,600	1,600		1,600
3	Faculty Office		1		1	100	100		100
4	Small Conference/ Faculty Growth			1	1	200	200		200
5	Adjunct Work Space	2		1	1	150	150		150
6	Storage			1	1	200	200		200
7	Scrub/Sterile Prep/ Dishwashing/ Clean and Dirty Linen/Autoclave			1	1	600	600		600
SUBTOTAL							3,450		3,450

HEALTH SCIENCES ADMINISTRATION

1	Division Director Office		2		2	150	300		300
2	Administrative Assistant Office		4		4	100	400		400
3	Reception/clerical		4		4	80	320		320
4	Waiting	6	6		6	20	120		120
5	Work/ copy			1	1	150	150		150
6	Dean's Office			1	1	180	180		180

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
2	Control room(s)			1	1	400	400		400
3	Queuing and waiting	100		1	1	500	500		500
4	Secure test storage area			1	1	100	100		100
SUBTOTAL							5,000		5,000



STUDENT WELLNESS CENTER / COMMUNITY SERVICE LEARNING PROJECT

1	Reception	6		1	1	320	320		320
2	Waiting	16		1	1	20	320		320
3	Children's Waiting			1	1	80	80		80
4	Exam Room			4	4	120	480		480
5	Accessible unisex restroom			2	2	65	130		130
6	Radiology			1	1	300	300		300
7	Lab			1	1	300	300		300
8	Dark Room			1	1	80	80		80
9	Consultation/Work	12		1	1	300	300		300
10	Patient Records			1	1	200	200		200
11	Staff Restroom			1	1	65	65		65
12	Staff Break			1	1	120	120		120
13	Clinic Storage			1	1	400	400		400
14	Office Storage			1	1	100	100		100
15	Clinic Manager Office			1	1	125	125		125
16	Counseling Office			1	1	125	125		125

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
SUBTOTAL							3,445		3,445

LIBRARY / MEDIA CENTER

1	Circulation/ Reference/ Information Desk	3 peak		1	1	600	600		600
2	Secure Shelving			1	1	10	10		10
3	Health Sciences Model Storage			1	1	200	200		200
4	Stacks			1	1	2,500	2,500		2,500
5	Group Study Rooms	6		2	2	150	300		300
6	Study Seating	48		48	48	25	1,200		1,200
7	Lounge Seating / Current Periodicals	8		8	8	25	200		200
8	Public Copiers	2		2	2	50	100		100
9	Public Access Computers	5		5	5	30	150		150
10	Librarian Office	1		1	1	100	100		100
11	Staff Office	2		2	2	100	200		200
12	Technical services			1	1	300	300		300
13	Self-check-out area	1		1	1	50	50		50
SUBTOTAL							5,910		5,910

GENERAL SCIENCE

space summaries
slcc jordan campus health sciences center

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF

GENERAL SCIENCE

1	Tiered Lecture Hall	72		1	1	2,160	2,160		2,160
2	Lab: Anatomy	24		1	1	1,400	1,400		1,400
3	Lab: Physiology	24		1	1	1,300	1,300		1,300
4	Lab: Microbiology	24		1	1	1,300	1,300		1,300
5	Lab: General Biology	24		1	1	1,300	1,300		1,300
6	Biology Lab Coordinator	1		1	1	120	120		120
7	Biology Faculty Office			2	2	100	200		200
8	Biology Prep			4	4	600	2,400		2,400
9	Lab: Chemistry	24		1	1	1,200	1,200		1,200
10	Prep: Chemistry	1		1	1	600	600		600
11	Chemistry Lab Coordinator Office			1	1	100	100		100
12	Small Conference/ Faculty Growth			1	1	200	200		200
							12,280		12,280
					0		0		0

AUDITORIUM/LECTURE HALL

1	Large Lecture Hall	500		500	500	12	6,000		6,000
---	--------------------	-----	--	-----	-----	----	-------	--	-------

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
	SUBTOTAL						6,000		6,000

COMMONS

1	Student Computers	180		1	1	5,280	5,280		5,280
2	Large Conference	20		1	1	400	400		400
3	Medium Conference	10-12		4	4	250	1,000		1,000
4	Small-group Study	6		8	8	125	1,000		1,000
5	Exhibit/Display			1	1	300	300		300
6	Lounge/study seating	150		150	150	18	2,700		2,700
7	Private Professional Consultation Rooms			4	4	150	600		600
8	Faculty/Staff Work Copy			4	4	150	600		600
9	Faculty/Student Group Interaction Area			4	4	150	600		600
	Adjunct offices	User data compiled by department in this list, but space will be clustered on each floor and shared by all departments to provide flexibility for future growth.							
10	Faculty /Staff Break Room	10-12		4	4	120	480		480
11	Locker/Shower/ Changing Area	600		1	1	1,200	1,200		1,200
12	Open Exercise Area			1	1	500	500		500
13	Aerobics/Fitness Room			1	1	1,500	1,500		1,500
	SUBTOTAL						16,160		16,160

BUILDING SUPPORT

1	Restrooms	51		51	51	65		3,315	3,315
---	-----------	----	--	----	----	----	--	-------	-------

space summaries
slcc jordan campus health sciences center

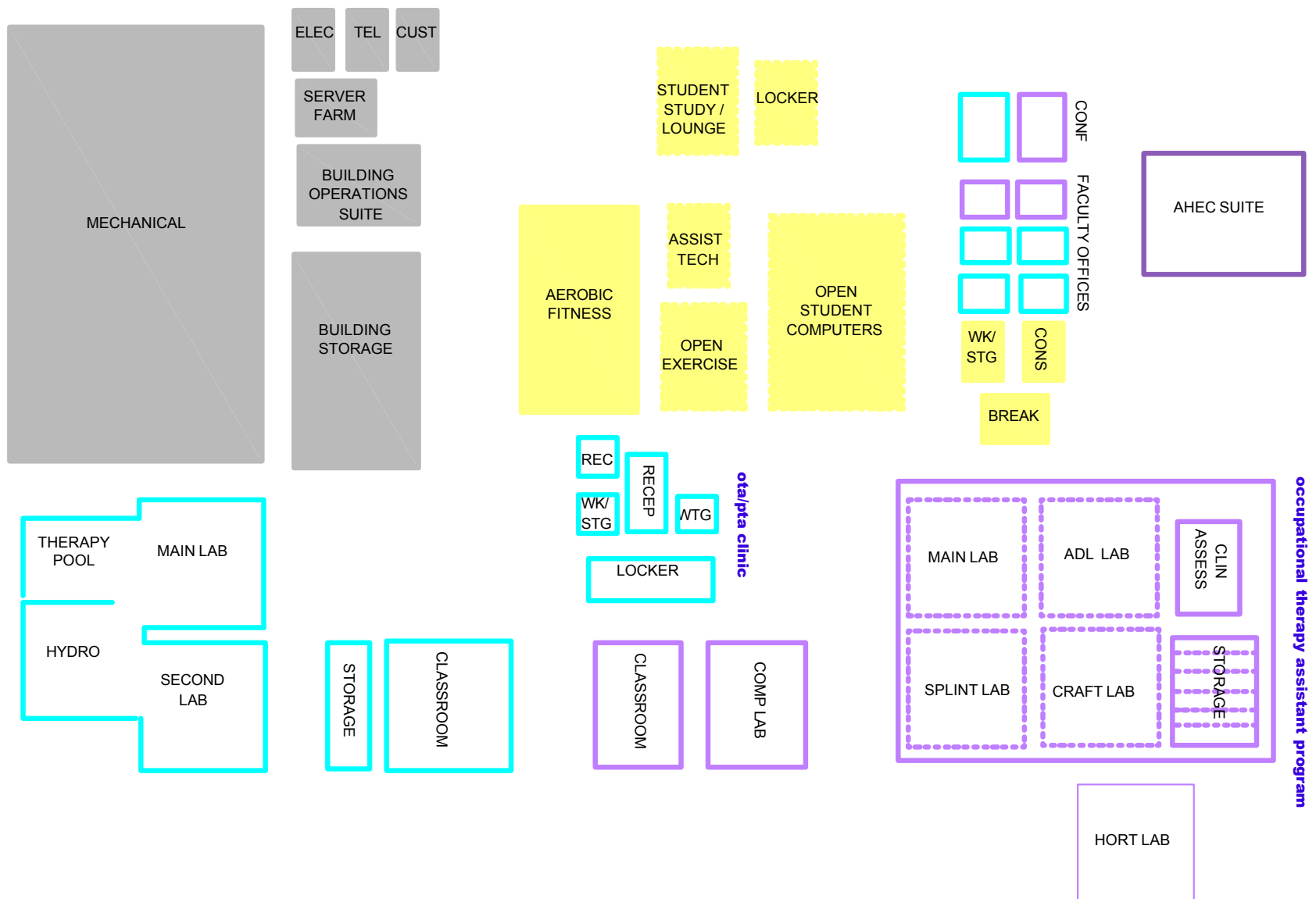
#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
2	Vending			4	4	100		400	400
3	Custodial			4	4	100		400	400
4	Building Operations Suite			1	1	700	700		700
5	Main Mechanical			1	1	10,360		10,360	10,360
6	Main Telecommunication			1	1	150		150	150
7	Phone/data rooms			4	4	100		400	400
8	Server farm			1	1	300		300	300
9	Main Electrical room			1	1	150		150	150
10	Electrical rooms			4	4	100		400	400
11	Building storage			4	4	450		1,800	1,800
12	Circulation & Access			1	1	22,200		22,200	22,200
13	Medical Gas			1	1	400		400	400
14	Dock/Receiving			1	1	200		200	200
	SUBTOTAL						700	40,475	41,175
	BUILDING TOTALS						106,219	40,475	146,694

#	DEPARTMENT	USER CAPACITY	QTY (now)	QTY (Growth)	QTY TOTAL	NSF EACH	TOTAL NSF	UNASSIGNABLE SF	TOTAL GSF
OUTDOOR SPACES									
1	Dock			1	1	200		200	200
2	Generator			1	1	240		240	240
3	Dumpster, Recycle containers, Hazardous Materials Pick-Up								
4	Accessible Parking for Clinic Patients								
5	Horticultural Therapy/ Outdoor Work	12	1		1	600	600		600

space summaries

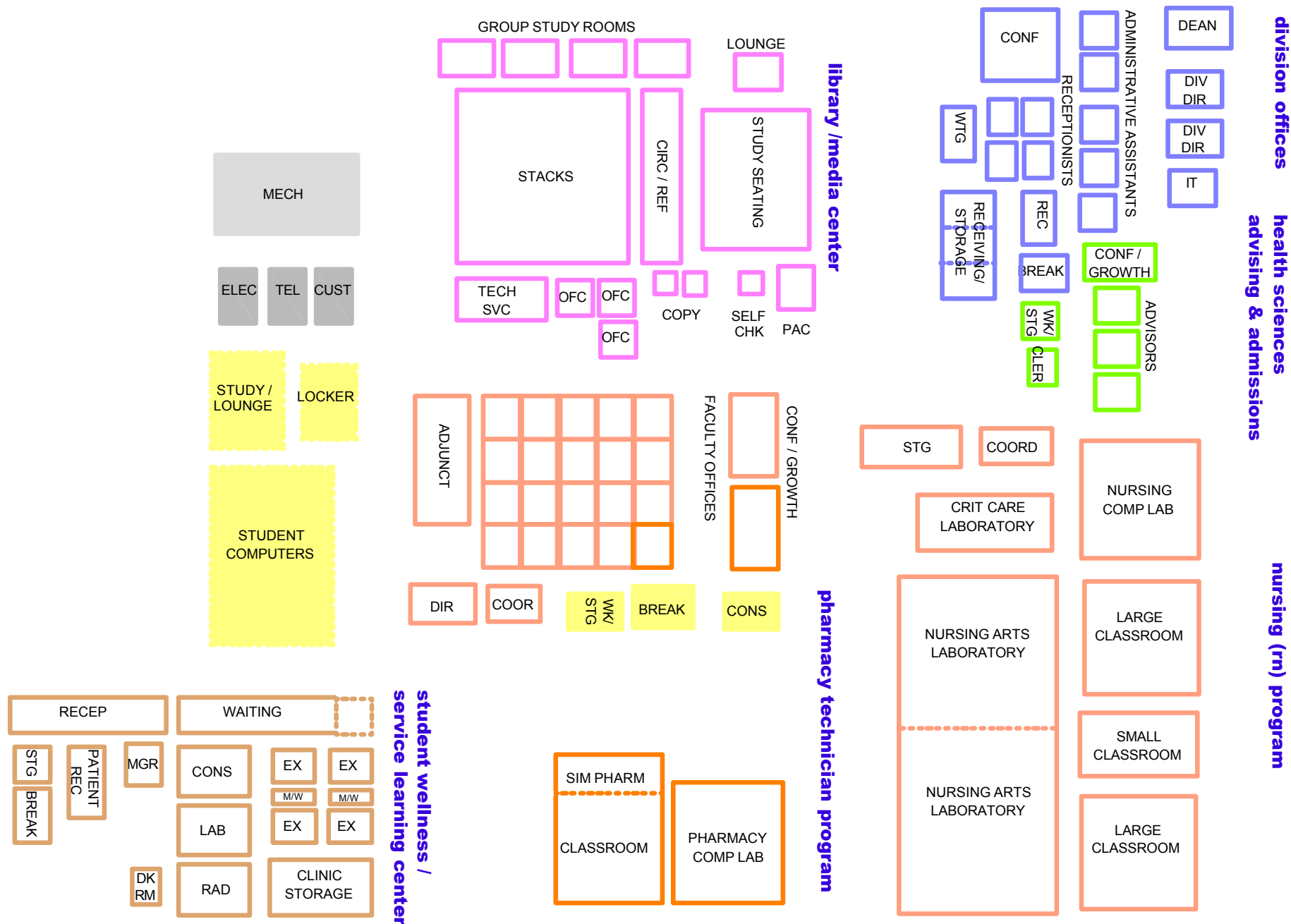
slcc jordan campus health sciences center

building relationships slcc jordan campus health sciences center



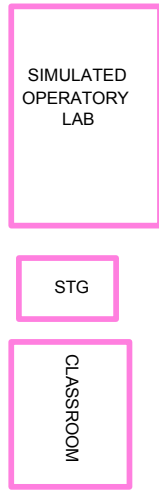
slcc jordan campus health sciences building program relationships
lower level

building relationships slcc jordan campus health sciences center

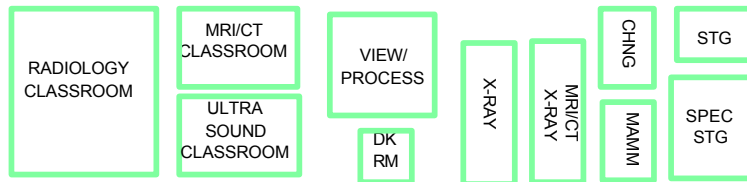


slcc jordan campus health sciences building program relationships
main level

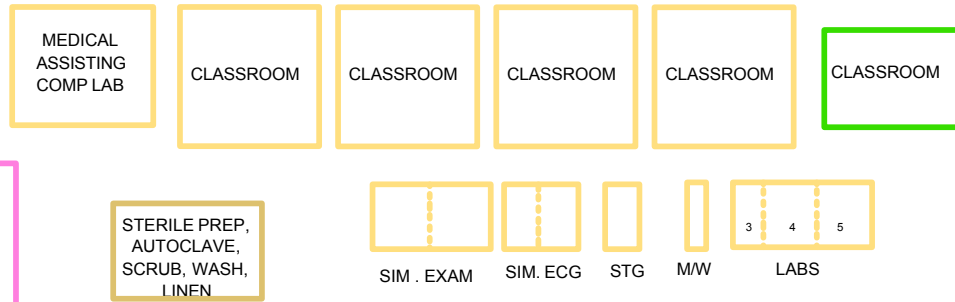
surgical technology program



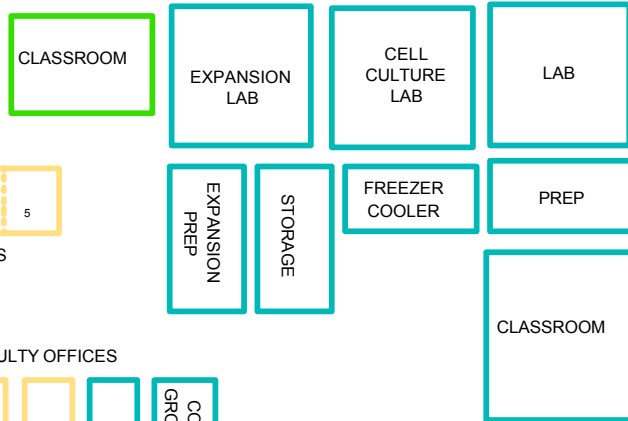
radiologic technology / radiologic specialties



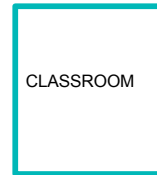
medical assisting program



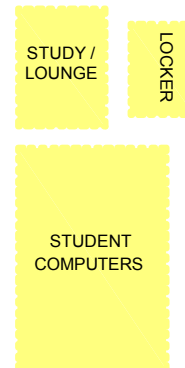
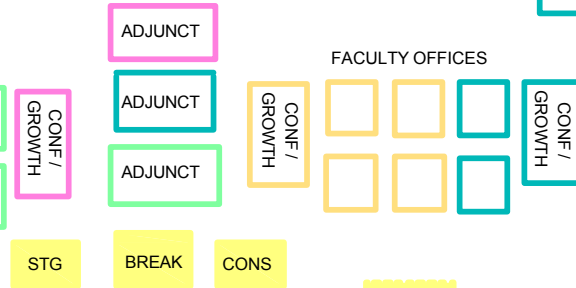
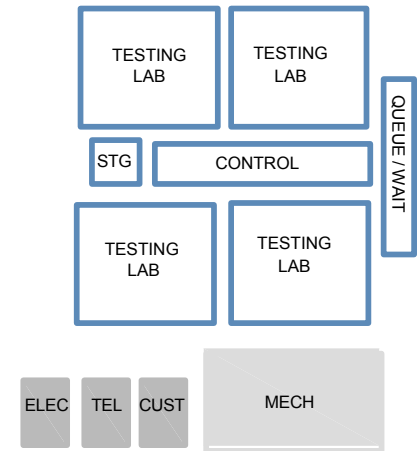
medical laboratory technician program



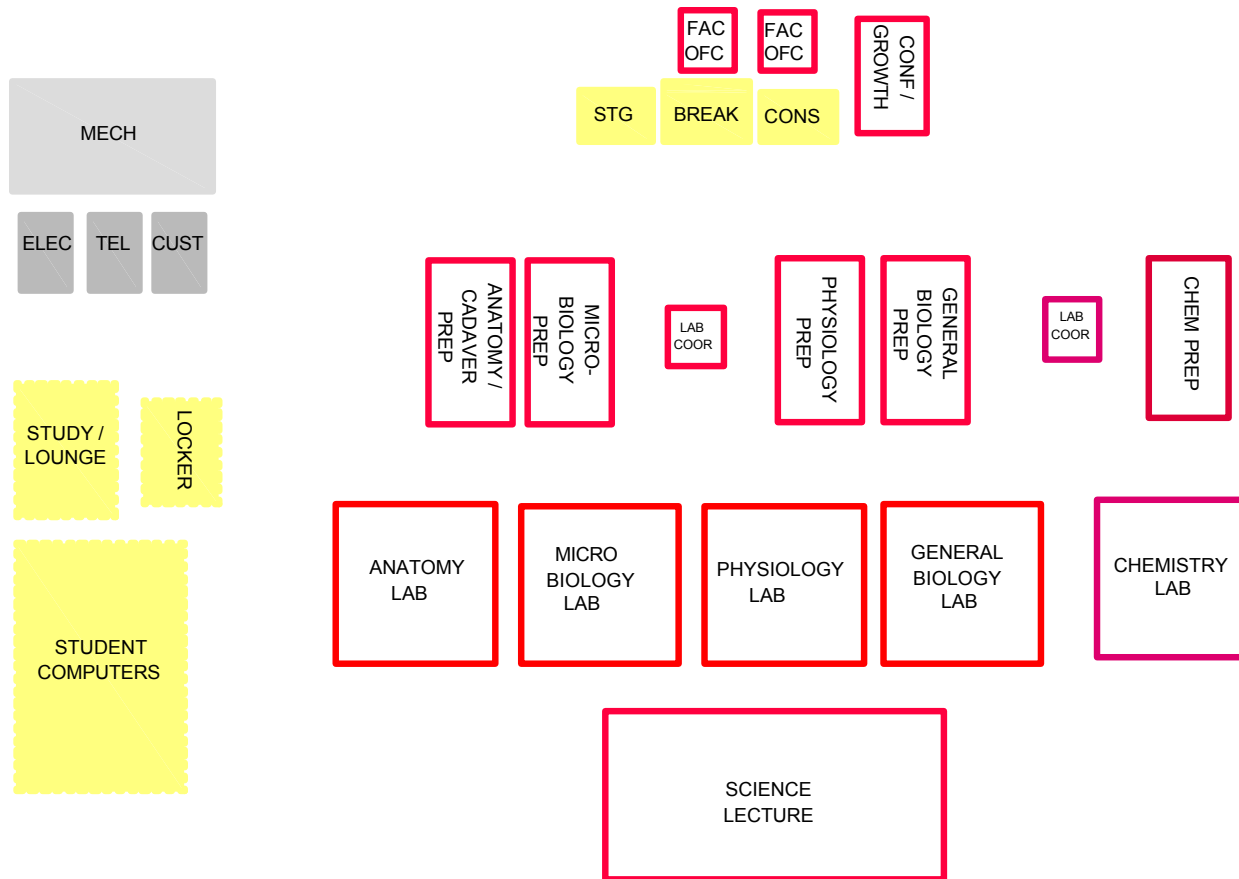
biotechnology technician program



health sciences assessment center



**slcc jordan campus health sciences building program relationships
3rd level**



science prerequisites
(biology & chemistry)

slcc jordan campus health sciences building program relationships
4th level

page where first noted	function	comments also apply to	review comments	recommendations
114-15	Biotechnology Technician Large Classroom	all classroom areas	Recommends specifying acoustical treatment on walls / ceilings; questions absence of full sound walls.	In keeping with budget concerns and general SLCC practice, the program has identified full sound walls only where required to maintain strict confidentiality (e.g. counseling offices). Program identifies an stc of 45-50 for classroom areas; acoustical treatments, if any, required to achieve this performance should be identified in design.
			Recommends dimmable downlighting at classroom desks. Considers 10-15 fc at board surfaces too low.	SLCC prefers to use zoned controls, which are less costly and more reliable than dimmable fluorescent lighting.
			Recommends larger projection screens, both flat at front wall, with only one in use when instructor is also writing on whiteboard. Considers sight lines to corner screens poor.	SLCC requested side-mounted screens separated from whiteboards. Regardless of configuration, sight lines should be reviewed at time of design.
			Suggests program drawings show all A/V equipment	Appropriate at this scale?
			Recommends electrically operated window shades	Program calls out "light control for a/v." Do we want to specify the type of window shades at this point?
			Prefers door(s) at back of room to minimize disruptions.	Review location at time of design.
			Notes poor sight lines at side-wall white boards.	Consultant is inconsistent – first recommends increasing
			Show classroom storage	In-classroom educational space
			Show alternate equipment layouts for demonstration area	Verify materials used for demonstrations at time of design and review code implications for storage and use of hazardous materials, if any.
			Recommends identifying location of power hookups for laptops (floor, table top)	
			Recommends second aisle.	If required or desirable, would add space to program total.

page where first noted	function	comments also apply to	review comments	recommendations
116-17	Biotechnology Technician Instructional Wet Lab	all spaces with T-8 lamps	Consider replacing T-8 lamps with T-5s	Change building-wide.
		instructional labs	Recommends 5'-0" minimum aisle between benches; 2'-6" side benches rather than 2'	Desirable to increase aisle widths and bench areas if space permits.
			Recommends capacity for a/v projection	Biotechnology staff stated that they did not need projection in the lab area if they had a dedicated classroom area proximate to the labs. EDNET capacity is specified for future use.
			Questions storage capacity, lack of above-counter shelves	Biotechnology staff prefer a configuration similar to existing labs, with windows where possible above the side benches. Verify casework with each lab department at time of design.
		all instructional areas	Locate and show all instructor demo items	Space includes an instructor demo station; individual items used for demonstrations will vary. Biotechnology does not use the demonstration area heavily; other users do, and may require additional space.
118-19	Biotechnology Technician Cell Culture Lab	this space only	Include projection board, instructor demo area, and seats with appropriate sight lines. Size inadequate for instructor, board and a/v projection equipment.	This space is not used for lecture-type instruction; it is used by student researchers performing contract research.
		all lab areas where chemicals may be present.	Recommends 100% outside air for lab areas	Department stated that 100% exhaust would be needed at hoods only, not generally in class lab areas. Verify needs and code requirements at time of design.
120-121	Biotechnology Technician Prep Room	Biotech prep rooms	Verify code requirements for storage of 20 gallon flammable chemicals.	Review at design.

page where first noted	function	comments also apply to	review comments	recommendations
122-25	Biotechnology Technician Walk-in Freezer and Cooler	These spaces only.	Clarify requirements for premanufactured freezer and cooler units.	Some corrections made in document. Review layout and ramp requirements at design when preferred manufacturer(s) are identified.
127	Biotechnology Technician Large Equipment Room	This space only.	Show sink, counter, shelves for material storage, water polisher and peg rack at sink. Provide additional 110 power in raceways.	Not requested by department. This space was described by user as a space to house large noisy equipment including large controlled temperature coolers, centrifuges, incubators, and ice machines. Verify power needs and equipment list at design.
130-31	Adjunct Work Area	All adjunct work areas	Locate printer. Drawing shows 2 desks, text indicates varying numbers of occupants. Ten adjuncts too many for a single area.	Drawing shows a partial space (2 work areas) with a cut line; notes indicate that this space can be combined with other similar spaces as needed. Configuration is a design issue. Is this unclear in the drawing?
133	Small Conference / Growth	All small conference/ growth areas	Wants whiteboards on all walls and infrastructure for A/V projection. On page 163 suggests adding storage cabinets for laptops, printers, etc.	This would generate significant costs to provide services that the building users have not indicated they need. These spaces are intended to accommodate small, informal meetings initially and ultimately to provide space for conversion to faculty offices to support future enrollment and program growth. Review need for A/V capacity at design. Equipment is listed as capacity for future when space is converted to office use; no storage is needed, since equipment will not be present when the space is used for conferences.
144-45	Medical Assisting Instructional Computer Lab	All instructional computing labs	Recommends larger space and larger computer work stations. Elsewhere recommends fixed tiered seating for computer labs, doors at back of room, built-in storage cabinets at counters, and additional space for instructor circulation in aisles.	Desirable to add space if budget permits. SLCC policy is not to build fixed, tiered seating for functions of this type and size. Users did not request in-room storage cabinets. Verify at time of design.

page where first noted	function	comments also apply to	review comments	recommendations
146-151			Confused about lab components and locations	A single drawing shows multiple functions so that the relationships among the spaces will be clear to design professionals. Might be useful to use hatching or shading to focus attention on the part of this area that discussed in each sub-section.
152-53	Medical Assistants Restroom – Specimen Gathering	all one-fixture restrooms	Show supply cabinet or shelf. Is this an accessible restroom?	Review configuration for accessibility at the time of design.
154-55	Medical Assistants Simulated Exam Room		Recommends dressing area/curtains for patients, view panel/observation room for instructor, interview table, computer station, A/V infrastructure. Add an “in use” light on the outside wall of the refrigerator. Provide x-ray view panel and/or computers for reviewing digital radiography.	Review these elements at design. Instructors say changing area is not necessary since students will practice on each other, not on real or simulated patients. An observation window would be costly and staff have not indicated a need for it. View boxes were not requested for this space; they will be used in a classroom area..
			Reconfigure space so that clinician can conduct exam from the right.	Room provides enough space to allow instructors to locate exam table where they choose. Verify accessibility at time of design.
			Specify access to an accessible restroom.	Program indicates proximity to locker/shower/changing areas, which will also include accessible restrooms
			Suggests video equipment for recording student practice.	Not requested by department. Verify at design.
157	Medical Assistants Simulated Critical Care Lab.		Questions function of wood ecg table and comments on the lack of a patient bed.	Department specifically requested the wood ecg table and arrangement, which does not correspond to standard clinic space. Students practice ecg’s on one another, not on real or simulated patients. Review and verify with department at time of design.

page where first noted	function	comments also apply to	review comments	recommendations
159	Simulated Procedure Room	This space only.	Questions function of the space; suggests it might be used for endoscopy and proposes including portable equipment for biopsies, etc.	Department requested a flexible space that could be used to teach a variety of procedures that require more area and equipment than the patient bed labs, but less than an operatory. At the time of programming, those uses have not been specifically defined. Review and verify with department at time of design.
161	Faculty office	All faculty offices.	Include coat hooks	
165	Storage	Storage areas, as appropriate for individual department use.	Provide either cabinets or open shelving, not both. Show location of copier and fax.	This is a generic drawing with a cut line to indicate general capacity of all storage areas. Individual departments may want capacity for both open and enclosed storage. Space is clearly adequate to accommodate equipment, which would not be in the contract in any event and are listed primarily to indicate potential power use.
179	Small Classroom	All small classroom areas.	Prefers 3 rows of 6-7 seats, door at back of room, double aisle. Suggests secure storage area for equipment. Show accessible seating.	Aisles on both sides would be desirable if budget permits, but SLCC uses the single aisle configuration with door(s) at the front of the room for many existing classrooms. This space has movable tables and chairs, not fixed seating. Is it necessary or desirable to show special wheelchair seating? Should we eliminate one or more tables in these spaces and call out special accessible seating?

page where first noted	function	comments also apply to	review comments	recommendations
185	Nursing Arts Lab / Critical Care Lab	bed labs and critical care labs	Suggests critical care lab space should be minimum 200 sf enclosed room with adjacent private bathroom, outside window with view, room for ventilator, pumps, monitor rack, and nurse charting station.	Configuration of these spaces is a design issue; department has considered a variety of options, including a simulated nursing station area central to bed labs and critical care areas. Specific request was for a critical care area with several bed stations separated by drapes to provide instructional flexibility. Department should review curriculum and community practice at time of design to identify a preferred option. The degree of accuracy in simulation recommended by consultants (e.g. windows for patients, provision of bathrooms, charting area) would increase costs and may not be essential to curriculum.
189	Instructional Computer Lab	all instructional computer labs	<p>Recommends tiered seating to provide better sight lines for projection. List A/V and projection equipment.</p> <p>Recommends increasing row space to allow instructor to circulate.</p> <p>Recommends larger white board, screen configuration similar to that recommended for large classrooms, doors at back of room.</p>	SLCC prefers not to use tiered seating, which is costly and inhibits flexibility. Room is programmed to have capacity for future A/V and EDNET use, but not to be equipped as part of this contract.

page where first noted	function	comments also apply to	review comments	recommendations
217	OTA main lab	all OTA lab areas and others with observation space”	Recommends showing layout of observation area.	Consultants seem to be confused about “observation” areas; elsewhere they have called for special windows, provisions for videotaping, a separate room for observers, and other features typically associated with formal counseling observation rooms designed for clinicians/ instructors outside of the area to watch and/or tape student/patient interactions. In these cases, “observation area” is simply space for students to stand and watch procedures. Is this unclear to others? Do we need to clarify? Notes on drawings to “include space for student observation” are intended to indicate why this much space was allowed for the function, when the equipment/ furnishings could be accommodated in a significantly smaller area. Users did not request formal observation rooms. Is there any reason that they would be desirable or worth the significant additional space and cost?
251	Simulated pharmacy	this space only	Consider adding display cases for over-the-counter products to simulate commercial pharmacy. Provide security/ access control. Is a refrigerator needed?	Is there instructional value to having an over-the-counter display? Do we need to simulate or provide access control/security beyond the roll-down grille, since no real drugs will be stored or dispensed here? Refrigerator should not be needed since no real drugs will be used; do we need to simulate one?

page where first noted	function	comments also apply to	review comments	recommendations
265	PTA main lab	various lab spaces and others with movable furniture	Comment is “ADA accessible”	Don’t know what the intent of these comments is in many cases, since I don’t see an ADA violation. If I’m not missing something and there is not a specific problem with the drawing, is there a need to point out in every drawing that all instructional spaces should be accessible? In spaces with movable furniture and equipment that could be rearranged to accommodate students with disability, should the drawings show and the tables quantify wheelchair space instead of tables, benches, or equipment, or should they show maximum furnishings, with the assumption that they would be moved as necessary to make space for disabled students?
270-71 492-493 511	Cadaver labs	all cadaver lab and prep areas	Recommends ceiling mounted exam lights, stainless steel cabinets and counters, controlled access, floor level exhaust, pressurized vestibule or air curtain, special access control, sinks with acid-neutral waste tanks. Also questions duplication and cadaver table types. Are dissecting sinks required?	Controlled access needed. Sinks and stainless counters requested only for Anatomy Prep area; in other areas, instructors use cadavers for demonstration only (students do not dissect). Special requirements are discussed, as noted on the drawing, in an appendix. Verify table types and methods of waste handling with department and donors(some agencies specify that <i>all</i> waste materials must be returned for burial) at time of design. Existing space in Biology department does not have vestibule, air curtain, floor level vents, or special access control, and it is acceptable to the department.
273	PTA hydro room	this space only	recommends larger observation window	Desirable if budget permits.
275	PTA therapeutic pool	this space only	Recommends wave pool with variable resistance that could be used for swimming, walking, and exercise.	Users requested a commercial unit. Verify whether requested unit has variable resistance feature, and whether the costs for a unit of this type can be justified.

page where first noted	function	comments also apply to	review comments	recommendations
295	Clinic waiting	all waiting areas, but may be more critical in the clinic	Recommends more space to expand the tight furniture configuration.	Desirable if budget permits.
301	Assistive technology practice area	this space and associated outdoor activity spaces	Where are car transfers practiced?	Car transfers could be simulated in te indoor space, or practiced in adjacent outdoor activity area.
309	Radiologic Tech X-ray room	this space only labs used by subgroups, not by the entire cohort at one time	Recommends different configuration of tube stand, rails, and table. May require different location for observation window. Assigned users lists “40, in groups”; reviewers consider this “too many.”	Configuration shown reflects layout in current space. Verify instructor preference at time of design. Space is not designed to accommodate entire program cohort at once. Instruction is done with smaller groups (up to 10 students per group), as indicated. This is indicated in associated text/charts.
311	Radiologic Tech Control/ Viewing	all x-ray and x-ray viewing areas, ultrasound	Recommends using digital imaging only because dry film is becoming obsolete. Provide additional space for movement. Replace view boxes with digital imaging.	Intent was to provide instructional space to prepare students for the range of work environments they might encounter, including traditional x-ray facilities with darkrooms. Using digital (PAC) technology exclusively would save some space, reduce shielding requirements, and provide instruction on state-of-the art equipment, but would not allow instructors to demonstrate the use of older equipment. Verify need for traditional technology at time of design. Design may depend on type of donated equipment that can be obtained. Desirable if budget permits

page where first noted	function	comments also apply to	review comments	recommendations
331	Radiologic Specialties	all Radiologic Specialties areas with equipment	List specific equipment and functions.	Layout and equipment will depend on the development of new programs and on the type of equipment available to the department at the time of design.
335	Mammo-graphy lab	This space only	Need shield at mammography unit; room width must be increased to accommodate shield. Need curtain	It's my understanding that on current equipment the shield is integral, but equipment dimensions and requirements vary considerably by manufacturer. Verify equipment type, dimensions and requirements at time of design. Why would we need a curtain when we have an adjacent changing area?
353	Surgical Tech Operatory	This space only	Need worktable and computer workstation for nurses. Use overhead booms rather than towers for medical gases, anaesthesia, and monitors.	Is the intent of providing a nurses' workstation to provide for cross-training with nursing students, to create a more exact simulation of real-world operatories, or to serve an instructional purpose for surgical technology students? Whether or not this is needed may depend on the answers to these questions. Review with user at time of design. User requested towers. Review advantages of overhead booms at time of design.
362	Scrub/ Sterile Prep	This space only	Separation of soiled and clean areas, and separation of wet and dry areas. Use sheet flooring rather than vinyl tile	The user initially conceived of this space as simply an area for instructing students in the proper way to scrub, with a non-functioning autoclave for demonstration in an adjacent instructional area. The function offers an opportunity for learning experiences that might be enhanced by adding simulated environments for sterilization, preparation, and cleaning procedures, but the degree of accuracy and the scope of the simulation may depend on available space and budget and the type of procedures that will be taught. While a real sterile prep area would have sheet or poured epoxy flooring, can the additional expense be justified here? Review configuration at design.

page where first noted	function	comments also apply to	review comments	recommendations
373	Health Sciences Administrative Reception	Reception and clerical areas	Add a transaction counter?	Not requested by user; might be more appropriate to a clinical environment than an academic one. Review at design.
383	Staff break room	All break rooms	Space too small for furniture shown.	It's cramped, but it is a realistic reflection of what these spaces tend to look like. More space would be desirable, but given the tightness of the budget, it isn't likely to be allocated to this function. A better solution to the problem might be to combine break room areas and create a larger single space to serve all faculty and staff in the building. Review at design.
387	Central student records	This space only	Consider compact filing system.	Review at design.
413	Testing Lab	All testing rooms	Diagramed layout does not prevent students from viewing adjacent screens. Add space to separate stations and increase aisles for instructor circulation.	Similar layout used in existing successfully in existing SLCC facilities. If separation is necessary, students are seated at every other desk; this allows the room to be used for larger groups for those tests that do not mandate a separation distance. Typically instructors do not circulate; observation is provided from the control area. Additional space would be desirable, but is not likely to be available given the budget for this project.
415	Testing Control and Queuing Area	This space only	Space cannot accommodate entire capacity of testing rooms and will be crowded at the end of testing sessions.	Students typically take tests on staggered schedule, so that large groups do not arrive or depart at the same time. As a result, this program does not attempt to provide dedicated waiting space of this type. Proximity to an overflow area (e.g. public lobby or study space) would be desirable to accommodate this possibility. Review at design. Assessment centers at other SLCC facilities have successfully used similar designs.

page where first noted	function	comments also apply to	review comments	recommendations
437	Wellness Center	This space only	Make sure refrigerator has enough room for sample storage. Does the space need distilled water?	Verify at design.
495	Physiology Lab		Is distilled water required in lab? Allow a minimum of 5' at all aisles. Coat/backpack storage? Should sinks have distilled water available?	Verify at design. Distilled water is available in prep rooms. Additional aisle space desirable, but may not be possible within budget limitations. Users reported that storage cubbyholes are not used in existing labs.
504	Biology Lab		Consider cluster arrangement for lab stations so that instructors can circulate more easily.	Users requested stations similar to those in existing labs in Science and Industries Building, but without the cabinets and drawers. Review at design.
522	Auditorium	This space only	States that 500-seat auditoria are rarely filled in health sciences facilities. Suggests that a 200-person auditorium and a 300-person auditorium would be more usable.	Review at design.
539	Commons / Exhibit Area	This space only	Include digital displays and donor recognition opportunities in list.	Verify digital requirement at time of design. Include donor opportunities in description.
541	Lounge/study seating		Suggests that this area may be redundant, since open computer lab areas are provided.	Usage in the High Tech Center at the Jordan Campus would suggest otherwise.
551	Locker/ shower / change		Review ADA access.	Review ADA access at time of design.

SLCC Health Sciences Center- Jordan Campus					
CSI #	Description of Work	Qty.	Unit	\$/Unit	Total
02	Site Work				
	Demolition of existing curbs	80	LF	\$1.50	\$120
	Cut	30,000	CY	\$5.00	\$150,000
	Backfill & compaction	20,000	CY	\$8.25	\$165,000
	Branch Utility Tunnel Piping	100	LF	\$140.00	\$14,000
	Curb & Gutter- Main parking lot	1,077	LF	\$10.00	\$10,770
	Asphalt parking & roads- main lot	97,147	SF	\$1.10	\$106,862
	Striping- main lot	254	EA	\$6.00	\$1,524
	Irrigation System- main lot	43,000	SF	\$0.55	\$23,650
	Topsoil, hydroseed- main lot	43,000	SF	\$0.65	\$27,950
	Curb & Gutter- Service Road	1,135	LF	\$10.00	\$11,350
	Asphalt parking & roads- Service Road	41,170	SF	\$1.10	\$45,287
	Striping- Service	7	EA	\$6.00	\$42
	Handicap Parking Signage	2	EA	\$250.00	\$500
	Irrigation System	36,800	SF	\$0.55	\$20,240
	Topsoil, Sod and landscaping	36,800	SF	\$1.50	\$55,200
	Trees- 2-1/2"	50	EA	\$250.00	\$12,500
	Catch basin	3	EA	\$1,200.00	\$3,600
	Storm drain line	100	LF	\$50.00	\$5,000
	Roof Drain Sump	4	EA	\$2,000.00	\$8,000
	Extend 12" Water Main	350	LF	\$35.00	\$12,250
	Fire Hydrants	2	EA	\$2,500.00	\$5,000
	Concrete mow strip (6" x 12")	1,056	LF	\$5.50	\$5,808
	Gen./Transformer/Dumpster slab on grade	750	SF	\$2.60	\$1,950
	Gen./Transformer/Dumpster footing	170	LF	\$20.00	\$3,400
	Gen./Xfmr/Dumpster foundation wall	510	SF	\$17.95	\$9,155
	Generator/Transformer/Dumpster enclosure	1,360	SF	\$19.25	\$26,180
	Plaza development	1	SUM	\$100,000.00	\$100,000
	Concrete walk	5,490	SF	\$2.50	\$13,725
	Suspended Slab Branch Utility Tunnel	100	LF	\$60.00	\$6,000
	Concrete Utility Tunnel Wall	1,800	SF	\$18.00	\$32,400
	Branch Utility Tunnel Concrete Footing	100	LF	\$100.00	\$10,000
	SUBTOTAL				\$887,462

The program cost estimate is based on January 2004 costs. Because the construction climate has changed significantly in the subsequent six months, it is recommended that these figures be thoroughly reviewed and adjusted accordingly at the time of design.

07	Thermal & Moisture Protection				
	Protection/drainage board @ tunnel	2,800	SF	\$2.50	\$7,000
	Protection/drainage board @ building	7,680	SF	\$2.50	\$19,200
	Waterproof membrane @ tunnel	2,800	SF	\$3.75	\$10,500
	Waterproof membrane @ building	7,680	SF	\$3.75	\$28,800
	Roof hatch	1	EA	\$800.00	\$800
	Concrete tile roof system w/ 4" rigid insulation	384	SQ	\$625.00	\$240,000
	PVC roof system w/ 4" rigid insulation	63	SQ	\$350.00	\$22,050
	Aluminum parapet & rake fascia	589	LF	\$75.00	\$44,175
	Copper Flashing @ valleys	256	LF	\$12.10	\$3,098
	Aluminum gutter/fascia system, 5" wide	640	LF	\$75.00	\$48,000
	Foundation insulation, 2"	1,536	SF	\$1.05	\$1,613
	EIFS soffit system	3,188	SF	\$11.85	\$37,778
	Vapor Barrier	22,400	SF	\$0.20	\$4,480
	Air Infiltration Barrier	22,400	SF	\$0.15	\$3,360
	Glass Fiber Insulation	22,400	SF	\$0.85	\$19,040
	1" Extruded Polystyrene	22,400	SF	\$1.00	\$22,400
	Caulking & sealant	1	LS	\$25,000.00	\$25,000
	SUBTOTAL				\$537,293
08	Doors & Windows				
	3' x 8'-0" alum. Door/Frame/Hardware	16	EA	\$1,200.00	\$19,200
	Curtain wall system (at lecture hall)	2,826	SF	\$35.00	\$98,910
	Exterior Aluminum Windows	5,231	SF	\$30.00	\$156,930
	Interior Hollow Metal glazing	600	SF	\$25.00	\$15,000
	Frame 3' x 7' H.M.	105	EA	\$125.00	\$13,125
	Frame 3' x 7' w/ sidelite HM	136	EA	\$180.00	\$24,480
	Frame 5' x 7' H.M.	7	EA	\$175.00	\$1,225
	Frame 6' x 7' H. M.	10	EA	\$171.00	\$1,710
	Rated solid core wood door 3' x 7'	163	EA	\$235.00	\$38,305
	Rated solid core wood door 2' x 7'	7	EA	\$225.00	\$1,575
	Non rated solid core wood door 3' x 7'	105	EA	\$225.00	\$23,625
	Non rated hardware	105	EA	\$290.00	\$30,450
	Rated hardware	163	EA	\$395.00	\$64,385
	Overhead coiling door (motorized)	1	EA	\$6,000.00	\$6,000
	Overhead coiling grille (motorized)- pharmacy	1	EA	\$3,500.00	\$3,500
	Door Opener Power Assisted	14	EA	\$2,000.00	\$28,000
	Revolving Door	2	EA	\$10,000.00	\$20,000
	SUBTOTAL				\$546,420

03	Concrete				
	Slab on grade w/ 6" base	40,000	SF	\$2.70	\$108,000
	Tiered Slab on grade w/ 6" base	6,300	SF	\$5.50	\$34,650
	Concrete footing (3' x 1')	117	CY	\$247.00	\$28,899
	Concrete spot footing 13'x13'x2'	700	CY	\$285.00	\$199,500
	Concrete foundation wall 1-4" thick	12,288	SF	\$17.25	\$211,968
	Precast concrete 6" bands	891	LF	\$20.00	\$17,820
	Precast concrete 1'-4" bands	960	LF	\$50.00	\$48,000
	Precast lintels, 9'-4"x12"x4"	1,223	LF	\$38.50	\$47,086
	Precast sills, 8'-8"x5"x4"	1,088	LF	\$27.50	\$29,920
	SUBTOTAL				\$725,843
04	Masonry				
	Brick veneer	20,544	SF	\$13.00	\$267,072
	Sandstone base	6,200	SF	\$38.50	\$238,700
	Full height cmu (14'-8")	5,120	SF	\$10.00	\$51,200
	SUBTOTAL				\$556,972
05	Metals				
	Roof deck, joists, beams & columns (flat roof)	6,300	SF	\$8.50	\$53,550
	Roof deck, joists, beams & columns (sloped)	34,560	SF	\$8.00	\$276,480
	Susp. Slab, Deck, Joists, Beams, & Columns	115,836	SF	\$15.00	\$1,737,540
	Stairs	3	LS	\$40,000.00	\$120,000
	Metal Air Intake Louvers	352	SF	\$35.00	\$12,320
	Gable End Metal Panels	800	SF	\$12.00	\$9,600
	Ledger Angle	800	LF	\$15.00	\$12,000
	Misc. Metals	1	LS	\$30,000.00	\$30,000
	SUBTOTAL				\$2,251,490
06	Wood & plastics				
	Misc. Framing & Blocking	1	LS	\$10,000.00	\$10,000
	Oak Base	15,000	LF	\$8.00	\$120,000
	Oak Chair Rail	15,000	LF	\$10.00	\$150,000
	Misc. Casework	1	LS	\$13,000.00	\$13,000
	Base cabinets w/ p.lam counter tops	600	LF	\$250.00	\$150,000
	Wall mounted cabinets	600	LF	\$150.00	\$90,000
	Base cabinets w/ chem. resistant countertops	800	LF	\$350.00	\$280,000
	Base cabinets w/ solid surface countertops	500	LF	\$400.00	\$200,000
	Classrm. Inst. Stations w/ solid surface tops	21	EA	\$3,500.00	\$73,500
	P. lam shelving	300	LF	\$200.00	\$60,000
	Wardrobe	80	LF	\$200.00	\$16,000
	P. lam counter tops	200	LF	\$50.00	\$10,000
	SUBTOTAL				\$1,172,500

09	Finishes				
	Acoustic ceiling panel 2 x 4 & Grid	0	SF	\$2.25	\$0
	Acoustic ceiling panel 2 x 2 & Grid	134,880	SF	\$2.50	\$337,200
	Gypsum board w/ glue on 12 x 12 clg. Tile	5,722	SF	\$5.75	\$32,902
	Gypsum board ceilings	0	SF	\$5.00	\$0
	Sealed conc.	10,664	SF	\$1.00	\$10,664
	Carpet (state contract)	11,234	SY	\$24.00	\$269,616
	Wood Floor	1,504	SF	\$10.00	\$15,040
	Ceramic mosaic tile floor	4,888	SF	\$8.00	\$39,104
	Epoxy terrazzo flooring	5,000	SF	\$26.00	\$130,000
	Vinyl	27,269	SF	\$6.50	\$177,249
	Ceramic tile wall (6 X 12)	12,942	SF	\$8.00	\$103,536
	Ceramic tile wall (4 X 4)	9,176	SF	\$6.75	\$61,938
	8" studs perimeter walls w/ layer of gyp	22,400	SF	\$3.90	\$87,360
	1.5" studs (furred walls)	9,600	SF	\$1.80	\$17,280
	Metal stud partition with gyp both sides	140,422	SF	\$4.00	\$561,688
	Paint gyp bd walls, door frames 3 coats	230,000	SF	\$0.43	\$98,900
	SUBTOTAL				\$1,942,476
10	Specialties				
	Toilet Accessories (large)	8	EA	\$3,000.00	\$24,000
	Toilet Accessories (small)	6	EA	\$750.00	\$4,500
	Toilet Partitions (phenolic)	36	EA	\$1,000.00	\$36,000
	Interior signage	285	EA	\$100.00	\$28,500
	Lockers	22	EA	\$90.00	\$1,980
	Fire Extinguisher and cabinet	16	EA	\$325.00	\$5,200
	SUBTOTAL				\$100,180
11	Equipment				
	Proj. Screens (powered) Large Lecture Hall	1	EA	\$7,500.00	\$7,500
	Projection Screens (powered)	1	EA	\$3,500.00	\$3,500
	Projection Screens (manual)	23	EA	\$300.00	\$6,900
	Fume Hoods	5	EA	\$5,000.00	\$25,000
	Marker boards 3 x 4	152	EA	\$400.00	\$60,800
	Marker boards 6 x 4	8	EA	\$675.00	\$5,400
	Marker boards 8 x 4	2	EA	\$850.00	\$1,700
	Marker boards 12 x 4	38	EA	\$1,025.00	\$38,950
	Cork boards 4 x 4	100	EA	\$300.00	\$30,000
	SUBTOTAL				\$179,750

12	Furnishings				
	Walk off mats	40	SY	\$30.00	\$1,200
	Lecture hall seating	500	EA	\$275.00	\$137,500
	Blinds	5,231	SF	\$4.00	\$20,924
	SUBTOTAL				\$159,624
14	Conveying Systems				
	3500 lb hospital elevator	2	EA	\$60,000.00	\$120,000
	SUBTOTAL				\$120,000
15	Mechanical Equipment				
	Mechanical	151,000	SF	\$25.50	\$3,850,500
	SUBTOTAL				\$3,850,500
16	Electrical				
	Electrical	151,000	SF	\$14.00	\$2,114,000
	Technology	151,000	SF	\$6.00	\$906,000
	SUBTOTAL				\$3,020,000
SUBTOTAL					\$17,992,986
	General Conditions	5.0%			\$899,649
	Bonds	1.0%			\$179,930
	Overhead & Profit	5.0%			\$899,649
	SUBTOTAL				\$1,979,228
TOTAL ESTIMATE OF CONSTRUCTION COSTS					\$19,972,214

New 800 ton chiller and cooling tower					
2-14	Architectural				
	Misc. work	1	LS	\$40,000.00	\$40,000
	SUBTOTAL				\$40,000
15	Mechanical Equipment				
	Mechanical - 800 ton chiller and tower	1	LS	\$600,000.00	\$600,000
	SUBTOTAL				\$600,000
16	Electrical				
	Electrical	1	LS	\$220,000.00	\$220,000
	SUBTOTAL				\$220,000
SUBTOTAL					\$860,000
	General Conditions	5.0%			\$43,000
	Bonds	1.0%			\$8,600
	Overhead & Profit	5.0%			\$43,000
	SUBTOTAL				\$954,600

program cost estimate

slcc jordan campus health sciences center



Structural

The structural design for this project should provide a building system which will integrate with the program requirements for space layout, as well as with the architectural and building service needs, while meeting current code standards for vertical and horizontal load carrying capacity. User needs in terms of current flexibility of the spaces and future adaptability of use should be considered. The level of user comfort as determined by the acoustic and vibration sensitivity of the structure also should be addressed.

Structural / Service Coordination

Layout of the structural grid will need to respect the classroom, office, and laboratory planning module established for the various building functions. During the design phase, a completely integrated approach to building systems is recommended. Distribution of HVAC, plumbing and electrical services must be carefully coordinated with the structural elements, particularly at framing intersections and major crossover points. This close coordination must be achieved in order to avoid conflicts and limit penetrations of major structural members.

Codes and Standards

Codes and standards that apply to the design of this building are:

- 2003 International Building Code
- DFCM Design Criteria for Architects and Engineers, March 10, 1995
- American Institute of Steel Construction (AISC) with Commentary
- ACI 318 Building Code Requirements for Reinforced Concrete
- ACI 530 Building Code Requirements for Masonry Structures
- American Iron and Steel Institute (AISI) Specifications for the design of Cold-Formed Steel Structural

Members

- American Welding Society (ANSI/AWS) D1.1 Structural Welding Code
- Steel Joist Institute (SJI) for open web Joists and Girders
- Steel Deck Institute (SDI) for Metal floor and roof Decks

Geotechnical Criteria

AGEC Consulting Engineers has completed a project geotechnical report dated January 15, 2004 for the Jordan School District Applied Technology Center Facility, which is in close proximity to the site of the proposed Health Science Education Building. The results of the geotechnical study indicate that the subsurface soils consist of silty gravel overlying lean clay with occasional gravel layers. The site is classified as having a "very low" liquefaction potential. No ground water was encountered in any of the borings at the time of the investigation. At the Jordan School District ATC site, the site appears to have been raised approximately 6 feet with site grading fill. It is unknown whether this site-grading fill exists on the proposed site for the Health Science Education Building. If a site-grading fill is present, it is likely that this fill will require removal below any building foundations, and preferably it would be removed below any site pavements.

The site is suitable for the proposed development provided the recommendations of the geotechnical report are properly complied with. Spread footings founded on undisturbed native soils and / or structural fill are recommended for foundation support. The footings can be proportioned for a net allowable soil bearing pressure of 1,500 to 3,000 psf on compacted structural fill. Footings founded on undisturbed natural soils can be proportioned for net allowable soil bearing pressures between 1,200 and 1,500 psf. Design sub-grade basement walls and retaining walls for the equivalent fluid pressures specified in the geotechnical report.

Once the final building size, configuration, structural system, number of levels above and below grade, and column loads have been determined, the project geotechnical consultant shall review the following items to verify the assumptions in the geotechnical report conform with the final proposed design of the facility:

- Soil bearing capacity
- Structural fill requirements
- Potential differential settlements
- Potential for expansion or collapse of soils due to moisture changes
- Liquefaction potential
- Groundwater restrictions
- Seismic considerations, coefficients, fault traces, etc.
- Lateral bearing pressures – active and passive
- Alternate foundation systems
- Pavement sections

Basis of Design

Loading Criteria:

The structural systems in the facility shall be designed to meet the requirements of the 2003 International Building Code (IBC) and the Design Criteria Manual adopted by the Utah State Building Board. Copies of the Design Criteria Manual can be obtained from the Division of Facilities Construction Management (DFCM). Section 4 deals with structural requirements and section 4.5 lists minimum design requirements. The following minimum requirements should be anticipated:

- Wind Velocity: 90 mph, Exposure “B” or “C”, for the building structure, as appropriate to the site. Exposure “C” shall be used for elements and components including the exterior window wall systems
- Seismicity: 2003 IBC with spectral acceleration for short periods $S_s = 1.21$ and spectral acceleration

for a 1 second period $S_1 = 0.44$. The design engineer shall verify these spectral acceleration values with the 2003 IBC ground motion maps. The site has been classified as Class D. Appropriate modification factors for site classification shall be applied to the above spectral accelerations.

- Roof Load: 21 psf ground snow. Calculate roof snow load as specified in the Utah Uniform Building Standard Act Rules R156-56 issued January 1, 2002. Design for snowdrift where appropriate. Roof live loads shall not be less than that specified in IBC 1607.11.
- Floor Design Live Loads: Floor design live loads shall be in accordance with the latest edition of the DFCM Design Criteria Manual and the 2003 International Building Code and as follows:
 1. 80 psf, unreduced, except for column and footing designs
 2. 20 psf movable partition load
 3. Areas of concentrated standard file storage - 125 psf
 4. Floor areas supporting high density rolling files – 225 psf
 5. Paper storage areas – 250 to 350 psf as appropriate
 6. UPS Battery Storage areas – 250 to 450 psf as appropriate
 7. Mechanical Equipment Rooms – 125 psf minimum, or more as required by the final design

Areas where heavy load concentrations exceed the normal loading requirements shall be designed for the specific load case.

Note: The more stringent requirement between the 2003 IBC, latest edition, the DFCM Design Criteria Manual, and the loads given above shall govern.

Floor Vibration Criteria

Control of suspended floor and roof structure vibrations

due to human and mechanically induced excitation forces shall be considered in the selection of the building structural floor and roof framing systems. Generally accepted vibration performance guidelines for structural systems are as follows:

- Floors supporting office, classroom, and administrative functions shall be designed to provide a maximum floor framing vibration velocity of 16,000 micro-inches per second at 100 paces per minute.

It is not anticipated that any activities or equipment that are sensitive to floor vibrations will be located within this facility. This should be verified as part of the final design. Should vibration sensitive activities or equipment become necessary within the facility then structural system compatibility should be carefully evaluated.

Structural System Selection Cost Comparison

The structural system chosen for the building shall be selected based upon the following criteria:

- A cost comparison of at least two structural systems shall be investigated. The comparison should be broken down in detail with each component of cost significance being listed separately.
- Various structural systems comparing building construction time, material availability, coordination of various trades, lead times for ordering materials, appearance, owner preference, maintenance costs, flexibility for future remodeling, and compatibility with surrounding buildings should be considered when choosing the final structural systems for the building.
- Damage to the building structure and its contents due to lateral earthquake and/or wind loads should be evaluated between various structural systems. Damage control to building non-structural systems

is a pertinent and important consideration when selecting the building structural system.

More rigid shear wall and/or braced frame lateral force resisting systems provide greater damage control to a building's non-structural systems than does a more flexible moment frame type lateral force resisting system. However, a moment frame lateral force resisting system provides almost unlimited programmatic and planning flexibility initially and during the life of the building.

Given the design guidelines in place at the Jordan Campus of Salt Lake Community College, specifically those requiring sloped roofs, it is likely that a structural steel system framing system will be required. Other systems that can accommodate the design of the sloping roof surface should be evaluated and compared with a structural steel system.

All cost comparisons between structural systems should include interface costs between other building components such as architectural finishes, exterior enclosure systems, mechanical systems, and electrical systems.

Life cycle costing methods should be used where applicable.

Future Building Expansion

The A/E designers of the building shall not consider potential future horizontal and/or vertical expansions because:

- Future vertical expansion is not anticipated.
- Future horizontal expansion of the structure is not anticipated.

Wind Design

College and adult education buildings with an occupant capacity greater than 500 are classified

as "Category II" structures with a wind importance factor, " I_w " of 1.15 to be used in wind design analysis according to Table 1604.5 of the 2003 International Building Code.

Roof Snow Load Design

College and adult education buildings with an occupant capacity greater than 500 are classified as "Category II" structures with a snow load importance factor, " I_s " of 1.10 to be used in roof snow load design analysis according to Table 1604.5 of the 2003 International Building Code.

Earthquake Design

College and adult education buildings with an occupant capacity greater than 500, and buildings where more than 300 people congregate in one area, are classified as "Seismic Use Group II" buildings with a seismic importance factor, " I_E " of 1.25 to be used in earthquake load design analysis according to Table 1604.5 of the 2003 International Building Code.

Testing and Inspections

The Architect/Engineer, and the selected testing lab, shall perform periodic construction observations, testing, and special inspections, as outlined in section 4.6 of the DFCM Design Criteria for Architects and Engineers. The design engineer shall list all required special inspections on the contract drawings, and perform periodic construction observations as required by the A/E agreement. Costs for special inspections and testing services will be paid for directly by the owner.



15 MECHANICAL SYSTEMS

- 15.1 GENERAL
- 15.2 APPLICABLE CODES AND STANDARDS
- 15.3 ENERGY CONSERVATION
- 15.4 MECHANICAL SYSTEM COMMISSIONING
- 15.5 OUTSIDE UTILITIES
- 15.6 HEAT SOURCE
- 15.7 COOLING SOURCE
- 15.8 HEATING, VENTILATING, AND AIR
CONDITIONING
- 15.9 PLUMBING SYSTEM
- 15.10 OXYGEN SYSTEMS
- 15.11 COMPRESSED AIR SYSTEM
- 15.12 PURE WATER SYSTEM
- 15.13 LABORATORY VACUUM SYSTEM
- 15.14 FIRE PROTECTION SYSTEMS

15 MECHANICAL SYSTEMS

15.1 GENERAL

The design and construction is to comply with the current Utah State Division of Facilities and Construction Management Design Criteria and the current SLCC Jordan Campus Master Plan.

The mechanical systems for the building are to be energy conserving and suitable for the building occupancy. Systems and equipment are to have a proven history of providing efficiency and optimal energy conservation.

Various alternatives for the mechanical systems are to be considered with consideration given to initial cost and life cycle cost implications.

15.2 APPLICABLE CODES AND STANDARDS

The mechanical system throughout the building shall be designed and installed in accordance with the following current codes and standards:

- International Building Code
- International Mechanical Code
- International Fire Code
- International Plumbing Code
- International Energy Conservation Code
- International Fuel Gas Code
- State of Utah Boiler & Pressure Vessel Rules & Regulations
- American Society of Mechanical Engineers
- American Standards Association
- National Electric Code
- American Society of Testing & Material (ASTM)
- Occupational Safety & Health Administration (OSHA)
- National Fire Protection Association (NFPA)
- American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)

15.3 ENERGY CONSERVATION

DFCM has adopted the 1999 ASHRAE 90.1 standard. In addition, the State of Utah has a policy which requires all new State buildings to improve on the ASHRAE 90.1 minimum requirements by 25%.

15.4 MECHANICAL SYSTEM COMMISSIONING

In order to comply with ASHRAE 90.1, commission the mechanical system in accordance with the 1996 ASHRAE Guideline 1, The HVAC Commissioning Process. A commissioning authority will be hired directly by the state to oversee the commissioning. The construction documents will be written to bind the contractor to the Commissioning process.

15.5 OUTSIDE UTILITIES

Water: Extend the 12" water main located northeast of the proposed building to the southeast side of the proposed building. Cap the 12" line for future connection. Connect to the new 12" line for domestic water service and fire sprinkler service to the building.

Sanitary Sewer: Connect to the existing 8" sewer located north of the proposed building. The sewer line is approximately 15 feet deep.

Natural Gas: Extend the 4" 10 PSI natural gas line in the tunnel. Connect to the 4" line for service to the building. Reduce to 4 ounce pressure in the building.

Roof Drainage: Run the roof drainage to percolation sumps.

15.6 HEAT SOURCE

The heat source will be the Campus central hot water system. The building estimated heat load is 8,000,000 BTUH. The supply water design temperature is 220°F. The return water temperature is 150°F. The design pressure is 250 PSIG. Connect to the piping in the Main tunnel. Extend piping in the new branch tunnel to the building.

15.7 COOLING SOURCE

The cooling source will be the Campus central chilled water (CHW) system. The building estimated cooling load is 450 tons. The loop supply water design temperature is 42°F, the loop return water design temperature is 58°F. The building supply water temperature is 48°F, the return water temperature is 61°F. The design pressure is 200 PSIG. The plant CHW system is variable flow. The loop and building CHW system will be variable flow. Connect to the piping in the Main tunnel. Extend piping in the new branch tunnel to the building.

15.8 HEATING, VENTILATING, AND AIR CONDITIONING

GENERAL:

The building is to be heated, cooled, and ventilated with systems suitable for the building function and occupancy in accordance with ASHRAE standards. Maintaining good indoor air quality shall be a major consideration in selection of the HVAC system. Outside air intakes shall be located to minimize the introduction of external pollutants. The exhaust air outlets shall be located to prevent re-introduction of exhaust air into the building.

WET LABS:

Wet Labs shall be 100% exhausted. The Lab HVAC system, chemical fume hood exhaust system and Biological safety cabinet exhaust systems shall comply with ASHRAE standards.

COMMUNICATIONS ROOMS:

Communications rooms and other spaces requiring cooling 24 hours per day 7 days per week, shall be served by four-pipe fan coil units, because the central air handler may not be operating.

AIR HANDLERS:

Air handlers shall be located indoors. Redundancy shall be considered on large air handlers. Provide means to measure and record minimum outside air.



The Auditorium shall be served by a separate dedicated air handler.

PERIMETER RADIATION:

Provide perimeter hot water radiation in areas with substantial glass areas, to provide proper comfort.

DESIGN CONDITIONS:

Refer to DFCM Design Criteria.

15.9 PLUMBING SYSTEM

Plumbing system shall be designed to meet the International Plumbing Code as adopted by the State of Utah, and DFCM Design Criteria.

Domestic hot water shall be heated using the Campus hot water system. Provide electric water heater for summer use.

Urinals shall be waterless type.

15.10 OXYGEN SYSTEM

Central oxygen system and piping to provide oxygen to the laboratory and medical spaces shall be designed to meet the current edition of NFPA 99.

15.11 COMPRESSED AIR SYSTEM

Central compressed air system and piping to provide air to the laboratory and medical spaces shall be designed to meet the current edition of NFPA 99.

15.12 PURE WATER SYSTEM

Central pure water system and piping to provide water to the laboratory spaces shall be provided.

15.13 LABORATORY VACUUM SYSTEM

Central vacuum system and piping to provide vacuum at the laboratory spaces shall be designed to meet the current addition of NFPA 99 and user needs.

15.14 FIRE PROTECTION SYSTEMS

Fire sprinkler protection is to be provided suitable for the building type and occupancy. Systems to comply with NFPA and State of Utah Fire Marshal requirements.

Health Sciences Center
SLCC Jordan Campus

1-30-04 Final
Electrical Systems Program

16.0 ELECTRICAL SYSTEMS

- 16.1 CODES AND STANDARDS
- 16.2 SITE UTILITIES
- 16.3 BUILDING SERVICE AND DISTRIBUTION
- 16.4 LIGHTING
- 16.5 FIRE ALARM
- 16.6 TELECOMMUNICATIONS RACEWAYS

16.0 ELECTRICAL SYSTEMS

16.1 CODES AND STANDARDS

Codes which are applicable to the design of the electrical systems are listed below. Comply with each of the latest adopted publications. They are part of this program by reference and are not restated in the program narrative.

ADA, Americans with Disabilities Act
ASHRAE 90.1 Energy Code
DFCM, Division of Facilities Construction and Management, Design Criteria
EIA/TIA, Electronics Industries Association/Telecommunications Industry Association
IBC 2000, International Building Code
IESNA, Illuminating Engineering Society of North America
NFPA, National Fire Protection Association (applicable sections including but not limited to):
NFPA 70, National Electrical Code
NFPA 72, National Fire Alarm Code
UL, Underwriter's Laboratories
Campus Masterplan and Design Criteria
Utah State Fire Marshal Laws, Rules and Regulations

16.2 SITE UTILITIES

Medium Voltage

The new Building will be served from the Campus 12,470V distribution system. Extend the existing 15 kV loop from the tunnel into the new building. Provide a new vault-mounted VFI switch. The vault shall be adjacent to the building and accessed from the tunnel. Design the system to allow future extension of the loop as the Campus expands. Minimum cable size for the loop is #500 kCMIL CU EPR, 133% with #4/0 copper ground. Armored cable may be used in the tunnel. Where the cables exit the tunnel to underground, then the duct banks shall be concrete encased with minimum 6" diameter ducts.

Provide new outdoor pad-mounted transformer(s) for the building. During the design, evaluate whether a single 277/480V transformer and service with dry-type step-down transformers are to be used, or whether both 277/480V and 120/208V transformers and services are to be provided, with no dry-type step-down transformers in the building.

All engineering, materials and installation of the 15 kV system shall comply with the latest Campus Standards. Fully involve Campus Facilities and Maintenance during the design so that the new work is coordinated with any other projects or activities that may occur.

Telecommunications

Extend the existing tiered cable tray system in the tunnel to the new building. From the tunnel, extend a cable tray into the main telecommunications room, or MDF. Where the service cable tray would pass through plenum areas, then provide (4) 4" conduits in place of the tray. Refer to the Technology program requirements for the cabling requirements into the building.

16.3 BUILDING SERVICE AND DISTRIBUTION

Main Service

Design main electrical room close to medium voltage transformers for building. Each main switchboard shall be provided with digital metering that is connected to the Campus central power monitoring system via data lines. To the greatest extent possible, separate different types of loads onto different feeders and load centers, such as motors, lighting, convenience power and "clean" computer power. In general, large motors and equipment shall be served at 480V, 3 phase; lighting at 277V; outlets and small equipment at 120V. Verify voltage requirements with each specific equipment item.

Motor Control Centers

Program Document

Section 16 Page 2

Provide motor control centers for areas where 3 or more motors are grouped. All 3-phase motors shall be provided with phase-loss protection. Provide variable frequency drives where required for mechanical equipment in compliance with DFCM and Campus requirements.

Panelboards

New panelboards shall be provided in new, vertically stacked electrical rooms. The new electrical rooms shall be centrally located as much as possible, while taking into account other building and architectural considerations. These rooms shall be dedicated to electrical distribution and shall not be used for storage or any other purposes. Consideration shall be given to the ease and accessibility of running new and future conduits out of each room, for example, do not lock the room between stairs, elevators, restrooms, etc. that would make future work difficult. If inaccessible ceilings surround the room, then stub (5) spare 3/4" conduits from each panelboard to accessible ceiling areas. Dedicate an area of each room for current and future riser conduits or busways so that wall-mounted equipment will not impede vertical distribution. Panelboards serving normal lighting and appliance circuits shall be located on the same floor as the circuits they serve.

Spare Capacity

Switchboards, panelboards, transformers and other distribution equipment shall be provided with 50% spare capacity and spaces/spares for future growth and flexibility. Electrical equipment rooms shall have 25% additional space for future equipment. Design system to minimize shutdowns for future additions or work.

Branch Circuits

Branch circuits shall be loaded to no more than 80% of what is allowed by NFPA 70. Where outlets are intended for a specific piece of equipment, the load of the outlet shall be based on the equipment nameplate. Otherwise, allow no more than 6 convenience outlets per circuit or 4 outlets per circuit serving workstation computer terminals. Outlets with dedicated branch circuits (one outlet per circuit) are required for vending machines, copy machines, break room counters, A/V cabinets, lab equipment and other locations likely to have equipment requiring dedicated circuits. Each branch circuit homerun shall have no more than 3 circuits per raceway. All branch circuits shall be provided with a dedicated neutral, specifically identified for the circuit it serves.

Conductors

All conductors shall be copper. Conductors for branch circuits shall be sized to prevent voltage drop exceeding 3% at the farthest load. The total voltage drop on both feeders and branch circuits shall not exceed 5%. When calculating the voltage drop, the load shall be assumed to be 80% of the ampacity of the branch circuit and feeder conductors.

Raceways:

Design all wiring in raceways, minimum 3/4"C. Type MC or AC cable is strictly prohibited. Design cable tray system so that station cable raceways do not extend more than 50' max to cable tray. Conduits shall stub to the cable tray. Include pull strings in all empty conduits. Include raceway for all audio/visual and technology systems whether furnished as part of the construction contract or furnished by the Owner.

Equipment and Furniture

Refer to the program equipment summary and space plan sheets for equipment requiring electrical rough-in and connections. It is the responsibility of the design engineer to obtain equipment catalog sheets and installation diagrams and include power and raceway for all equipment requiring electrical connections. All equipment and furniture identified in the program documents, whether it is furnished in this contract or a separate contract, shall be provided with power and raceway rough-in for complete operation. Coordinate furniture connections with furniture systems suppliers.

Fault Current and Coordination Study

A fault current and coordination study shall be performed by a licensed electrical engineer to indicate available fault current at all points in the 15 kV and Building distribution systems. New equipment shall be adequately rated for the amount of available fault current. System coordination shall be studied, and fuses or breakers selected to ensure minimum system outage due to overloads or fault currents. Breakers with adjustable long time, short time, instantaneous and/or ground fault settings shall be set at levels for optimum system coordination.

Transient Voltage Surge Suppression

Provide transient voltage surge suppression (TVSS) and "noise" protection at service equipment (each main) and on branch panelboards in the facility which serve computer terminals. TVSS units may be integral to the panelboard or switchboard, or individually mounted "stand-alone" units. However, if individual units are used, they shall be placed immediately adjacent to the panelboard or switchboard to minimize the effects of increasing clamping voltages due to excessive lead lengths.

Outlets

Refer to program and space plan sheets for basic requirements. Where requirements cannot be identified, the following shall be used as a general guideline. Each outlet location shall be coordinated with the design team and end user during the design.

Classrooms, Lecture Halls and other Instructional Spaces: Provide outlets for instructor's station, audio/visual equipment and each student. Ensure that there is at least one outlet for each 10' of wall space. Provide floor outlets where stations or equipment cannot be served directly from the wall without crossing aisle space. Where tables are fixed in place, coordinate power outlets mounted directly into the millwork.

Student Commons Areas, Lounges and Study Areas: Provide power outlets for laptop computers, at least one duplex for each group of 4 seats, but no less than one outlet per each 12' of wall space. Provide floor outlets where stations or equipment cannot be served directly from the wall without crossing aisle space.

Offices: For each workstation, provide one outlet dedicated to computer terminals and one normal outlet, and one additional normal outlet for every 10' of wall space.

Conference and Meeting Rooms: One outlet for every 10' of wall space, plus one outlet dedicate to computer terminals on two walls. Provide floor outlets underneath conference room tables.

Lounges/Breakrooms/Kitchenettes: GFI Outlets on dedicated circuits every 4' on counter top plus dedicated outlets for refrigerator, microwave, and disposal (switched at counter top), plus one outlet for every 10' of other wall space in room.

Counter tops (in general): One outlet every 4'; GFI where within 8' of a sink.

Labs: Outlets sufficient for programmed equipment, plus outlets along work benches or tables – no greater than 2' on center.

Telephone/Data Closets: At least 6 quad outlets on emergency power with circuit density to allow for at least 40 VA per square foot.

Electrical Rooms: At least one outlet on emergency power.

Restrooms/Shower Rooms: One GFI outlet near each lavatory counter top.

Corridors, Lobbies: Provide at least one outlet every 25', on alternating sides of the corridor or lobby.

Stairs: One outlet at the landing of each level.

Storage Rooms (small), Janitors Closets: One outlet.

Building Exterior: One WP/GFI outlet near each entrance.

Other Areas: Refer to individual space plan data sheets, and where not defined coordinate requirements with user during design.

Grounding

All feeder and branch circuit raceways shall include an insulated equipment grounding conductor. Provide a grounding riser system throughout the telecommunications closets, with grounding bus bars mounted accessible in each closet. All grounding systems shall be bonded together per NEC requirements.

Lightning Protection

Program Document

Section 16 Page 4

Provide a lightning protection system for the new Building. Engage an LPI-certified installer, designer and inspector for the system. Provide a UL Master Label and comply with NFPA 780.

Emergency Service and Distribution:

Provide an emergency diesel generator for the new building. Generator may be indoors or outdoors depending on specific design requirements. Outdoor generators shall be in a screened area with weather-protective, sound-attenuating housing and skid-mounted, double-walled tank. Fuel supply shall be minimum 24 hours at full load. Design at least two transfer switches: one for emergency and one for non-emergency ("optional") loads. Annunciate alarms adjacent to fire alarm panel. Design generator distribution panel with digital metering. The following shall be provided with emergency power:

- Emergency egress and exit lighting
- Fire Alarm
- One Elevator
- Smoke control – if provided
- Communications rooms – outlets, lights and air conditioning
- Electrical rooms – lights and outlets
- Security systems
- Critical lab equipment, such as bio-tech refrigerators

16.4 LIGHTING

General

Comply with illuminance levels and uniformity criteria of IESNA and its Recommended Practices. Comply with RP1-93 "Office Lighting", RP3-00 "Lighting for Educational Facilities", RP-8-00 "Roadway Lighting", RP-20-98 "Lighting for Parking Facilities", and RP-33-99 "Lighting for Exterior Environments". For exterior lighting, indirect lighting, and other specialized task lighting provide point-by-point plot of illuminance establishing conformance with the Recommended Practices. Except for specialized applications, design lighting with a minimum efficacy of 64 lumens per watt. Specify maximum 10% THD electronic ballasts. In addition, design lighting with a CRI exceeding 82, except in storage, mechanical, electrical, and similar nonpublic applications. Where appropriate, minimize number of lamp types utilized. Use 4' T-8 lamps with CRI of 88 or greater wherever possible. Specify lamps complying with EPA TCLP requirements.

Comply with ASHRAE 90.1 requirements, except that overall energy target requirements should be reduced by 25%. Design lighting control to harvest daylighting where practical, to control based upon occupancy, and according to programmable scheduling as applicable to the application.

Parking, Pedestrian, and Street Lighting

Use only campus standard lighting fixtures for walkways, parking and roadways, compatible with the campus surroundings. Control exterior lighting utilizing combination photocell and time schedule control.

Design parking areas to comply with RP-20-98, except that the minimum illuminance shall exceed 1 footcandle with a 15:1 uniformity. Design pedestrian areas to comply with RP-8 (average to minimum uniformity ratio less than 4 to 1), except that the average horizontal illuminance shall be increased to 1 footcandle and the average vertical illuminance to 1 footcandle. For each of these areas design two level lighting so that from 11:00 PM to dawn the illuminance level reduces to .6 footcandles minimum. Consider "dark sky" issues in application of luminaires.

Design street lighting to comply with RP-8, except that the average illuminance level shall exceed 1.0 footcandles and average to minimum uniformity ratio less than 3 to 1 with special consideration for the entry from the roadways bounding the site to comply with minimum uniformity requirements and veiling luminance ratios.

Interior Lighting

In general, utilize low-glare fluorescent lighting with electronic ballasts. Pendant indirect lighting should be strongly considered, but must be carefully coordinated in rooms with projectors so that the fixtures will not interfere with the projected image. Select luminaires for areas where VDTs are planned which are designed to minimize veiling reflections, and provide multilevel lighting control and task lighting to reduce the illuminance on the VDT. In addition, in rooms with audio visual, design lighting with variable or switched levels as indicated with

a separate controlled zone to reduce glare and illuminance on the audio visual display. In origination rooms, design dimming system to interface with audio/visual control system. Include in addition, TV studio lighting fixture to focus and highlight on instructor. In rooms with projectors, provide a separate bank of lighting control switches or station near the instructor position for ease of controlling lighting during presentations. Comply with RP-3-00 for classroom lighting, except increase illuminance to 75 fc (variable). Comply with RP-1-93 for office lighting.

Select occupancy sensors for the appropriate applications and control for daylight harvesting. Specify dual technology ceiling mounted directional sensors in private offices and classrooms with manual off switches. Specify ultrasonic sensors in restrooms. Specify programmable lighting control with manual timed overrides in all common areas such as open offices, corridors, lobbies, and similar areas. Integrate lighting control for energy savings with lighting control for audiovisual.

Design exit lighting to comply with IBC. Design emergency lighting for means of egress to 1 fc minimum to comply with IBC. Include emergency lighting in restrooms, electrical rooms, vaults and communication rooms.

16.5 FIRE ALARM

Campus Fire Alarm and Life Safety:

Comply with Utah State Fire Marshall's "Rules and Regulations" and Campus fire marshal requirements. Only FCI as distributed by Nelson Fire Systems is allowed on campus. Design an addressable system capable of networking with the campus system and reporting back to central campus fire alarm system. Design strobes visible from all locations except private offices. Evaluate building occupancy type to determine if evacuation speakers are required. Design horns (or speakers) to comply with NFPA including for higher ambient noise requirements. Where smoke control systems are required, coordinate the integration of the fire alarm with the smoke control systems. Provide duct detectors and fan shutdown where required by NFPA and the IMC, including detection of smoke at all return air shafts serving multiple floors. Coordinate location of the building annunciator with the Campus fire marshal. All other detectors and functions shall comply with the referenced codes and standards.

16.6 TELECOMMUNICATIONS RACEWAYS

Riser Distribution

Provide stacked telecommunications closets to serve each floor of the building. Comply with EIA/TIA and campus requirements in the sizing and locating of these rooms. Increase room size for A/V, TV and other systems that may be located in these rooms. Coordinate equipment layout and wall space with the Campus. Locate closets such that when cabling is routed through the raceway system provided, the distance will not exceed 290 feet to the furthest outlet. Provide a minimum of four 4" conduits from the MDF to the stacked IDF locations and four 4" sleeves between floors. If possible, stack the MDF below the IDF's. Provide both normal and emergency circuits to each IDF, 3 each, with one fourplex per circuit. Twenty-four hour HVAC is required in each closet and shall be supplied with emergency power.

Horizontal Distribution

Provide a cable tray distribution network throughout each floor and into the IDF closets. Extend the cable tray around inside of the IDF closet to allow cables to be routed within the room. Consider ease of access to the tray system when the building is in full operation. Limit cable tray routing to be above corridors, common and similar areas. Where ceilings are exposed or inaccessible, then provide a bridge of equivalent conduit connecting the cable trays in the accessible ceiling areas. It will be the designer's responsibility to size the cable tray and raceway system for the intended cabling installation. Do not load the cable tray and raceway system to more than 50% of what is allowed by cable fill requirements of NFPA 70.

Voice/Data Drops

Each voice/data outlet location shall consist of a 4" square box with mud ring and one 1" conduit stubbed to the nearest cable tray. Refer to program space plans for quantities and coordinate exact locations with the users during design. As a minimum, provide one voice/data drop for each workstation, fax machine, copy machine, desk, computer terminal and teaching station. Where wireless networks are being considered for student access, still allow sufficient empty raceways for future hardwired connections should the wireless system have insufficient bandwidth for evolving applications.

Health Sciences Education Building
Salt Lake Community College

1-30-04 Final

1.0 TECHNOLOGY SYSTEMS

- 1.1 CODES AND STANDARDS
- 1.2 STRUCTURED CABLING SYSTEMS
- 1.3 SECURITY SYSTEMS
- 1.4 AUDIO AND VIDEO SYSTEMS
- 1.5 CLOCK SYSTEMS

1.0 TECHNOLOGY SYSTEMS

1.1 CODES AND STANDARDS

Codes which are applicable to the design of the technology systems are listed below. Comply with each of the latest adopted publications. They are part of this program by reference and are not restated in the program narrative.

ADA, Americans with Disabilities Act
DFCM, Division of Facilities Construction and Management, Design Criteria
EIA/TIA, Electronics Industries Association/Telecommunications Industry Association
IBC 2000, International Building Code
NFPA, National Fire Protection Association (applicable sections including but not limited to):
 NFPA 70, National Electrical Code
 NFPA 72, National Fire Alarm Code
UL, Underwriter's Laboratories
IEEE Compliance: Comply with applicable requirements of IEEE 208
Salt Lake Community College Design Criteria
Utah State Fire Marshal Laws, Rules and Regulations
Standard Broadcast Wiring and Installation Practices", as excerpted from "Recommended Wiring Practices," Sound System Engineering, (2nd Edition), D. Davis
The Basics of Audio and Visual Systems Design, Revised Edition, Ray Wadsworth / International Communications Industries Association, INC.

1.2 STRUCTURED CABLING SYSTEMS

GENERAL

Voice/data cabling (structured cabling systems) will include copper station cabling, copper and fiber backbones, all terminations, wall plates, patch panels, cross connects, racks and wire management

Voice and data service will originate from the designated campus demarcation, and will be comprised of a combination of category 3 copper cabling for voice, and single and multimode fiber for data. This cabling will terminate in the main telecommunications room, or MDF. From the MDF, a backbone of category 3 copper cable for voice, and a combination of multimode and single mode fiber cabling for data will be provided to each subsequent wiring closet, or IDF on each of the floors for voice and data signal distribution. From that point, horizontal cabling will be provided to each of the voice/data outlet "drops".

TYPICAL VOICE/DATA OUTLET

For non-teaching spaces, design each typical voice/data outlet with 3 each category 6, RJ45 data jacks. More or fewer outlets may be required to serve specific needs in specialty areas. In classroom and lab areas provide one each category 6, RJ46 data outlet for each student seat (unless directed otherwise by authorized SLCC personnel during the design process), and three each category 6, RJ45 data outlets at each teaching station. In computer labs, design one each category 6, RJ45 data outlet for each computer station. All outlet wall plates shall be one gang with provisions for up to six RJ 45 jacks labeled to comply with Salt Lake Community College standards. Match color of electrical devices. Cable each RJ45 data outlet with a 4 pair Category 6 cable. If systems furniture is installed coordinate location of 3 each RJ45 outlets with cabling for each workstation.

WIRELESS NETWORK

SLCC desires that the building, and all immediately adjacent outdoor areas, be provided with reliable wireless local area network coverage. Provide data outlets at owner designated locations for wireless access points to cover all interior areas, as well as to "spill-out" into all immediately adjacent outdoor areas. Design wireless access point data outlet with one each category 6, RJ45 data jack mounted on a single gang wall plate.

TELEPHONE OUTLET

Design telephone outlets for pay phones, elevator panels, wall phones and other required uses. Install 4 pair Category 6 cable in a suitable plate for the application.

VOICE AND DATA SYSTEM ACTIVE ELECTRONICS AND PASSIVE DEVICES

All active voice and data system electronics including, but not limited to, hubs, routers, servers, PBX's, etc... will be provided from a separate budget and are not part of the construction budget. All passive devices including, but not limited to cabling, termination devices, wall plates, patch panels, connectors, open frame

equipment racks, cable runway, and cable management systems are part of the construction budget.

1.3 SECURITY SYSTEMS

General

All security systems will comply with established campus standards. Systems will annunciate alarm conditions to, and be completely monitored by, the campus police department.

Card Access

An individual door, stand-alone card access control system will be specified to control entry to all perimeter entry/exit points, and at select sensitive interior spaces. Card readers will be the proximity type, and will comply with established campus standards. Individual door, stand-alone card access system controllers will be individually programmed, and will not be networked together. Coordinate door hardware to minimize the aesthetic impact to the appearance of the building. No other security systems will be provided.

1.4 AUDIO AND VIDEO SYSTEMS

General

Audio and video systems will be specified for installation as part of the building construction work, to be completed with all building trades. Audio and video systems will be specified for 22 classrooms in full compliance with established campus standards. Audio and video systems in all classrooms will be similar in design, function and operation to facilitate user friendly operation by faculty from room to room.

500- and 72- Person Classrooms

500- and 72- person classrooms will be provided with fully integrated audio, video, and control systems. Audio systems will amplify the spoken word from presenters, as well as amplify program audio originating from media source playback devices such as computers and DVD players. The spoken word originating from presenters will be captured using wireless, lapel microphones and lectern-mounted gooseneck microphones. Once captured, the audio signal will be processed and amplified to a speaker system.

Each classroom will be provided with a building standard teaching station (lectern). Several media source devices will be provided and housed at each lectern. These devices will include, but not be limited to, one permanent computer, inputs for one portable computer, a DVD player, a VCR, a document camera, and audio/video/data sources originating from outside the classroom. Audio originating from these source devices will be selected, processed, and amplified to a speaker system. In compliance with the Americans with Disabilities Act, a wireless assisted listening system will be provided.

Provide video systems for the large screen display of classroom subject matter. Size projection screens using industry-wide accepted mathematical formulas appropriate for the nearest and furthest viewers. Locate projection screens in close coordination with seating layouts to assure appropriate viewing sight lines. Provide projectors with a minimum native resolution of 1280 X 1024. As with screen sizing, utilize industry-wide accepted mathematical formulas to calculate the required light output for each projector to assure that images will not be "washed out" by ambient room lighting. Include all video system calculations in the construction drawings.

Provide two projectors and screens with the ability to display different images on the screens simultaneously. The ability to write electronically over both images simultaneously, (annotate), will also be provided.

Equip classrooms with an integrated control panel for control of all audio and video system components, lighting systems, and motorized window coverings (where applicable). To meet this need, a touch screen control panel will be provided. The touch screen control panel will serve as the control panel, lectern monitor, and the annotation input device. Specify control system manufacturers in compliance with established campus standards. The touch screen control panel will be programmed in full compliance with the end user's desired button layout, configuration, and labeling. In addition, macros (multiple events) will occur when a button on the touch panel is engaged.

40-, 36- and 30- Person Classrooms

40-, 36- and 30- person classrooms will be provided with fully integrated audio, video, and control systems. Audio systems will not be provided for the amplification of the spoken word from presenters. However, audio systems will be provided to amplify program audio originating from media source playback devices such as computers and DVD players.

Each classroom will be provided with a building standard teaching station (lectern). Several media source devices will be provided and housed at each lectern. These devices will include, but not be limited to, one permanent computer, inputs for one portable computer, a DVD player, a VCR, a document camera, and audio/video/data sources originating from outside the classroom. In addition, the 40- person classroom that serves the Radiologic Technology Department will be equipped with a digital X-ray presenter. Audio originating from these source devices will be selected, processed, and amplified to an appropriate speaker system. In compliance with the Americans with Disabilities Act, a wireless assisted listening system will be provided.

Provide video systems for the large screen display of classroom subject matter. Size projection screens using industry-wide accepted mathematical formulas appropriate for the nearest and furthest viewers. Locate projection screens in close coordination with seating layouts to assure appropriate viewing sight lines. Provide projectors with a minimum native resolution of 1280 X 1024. As with screen sizing, utilize industry-wide accepted mathematical formulas to calculate the required light output for each projector to assure that images will not be "washed out" by ambient room lighting. Include all video system calculations in the construction drawings. Provide one projector and screen with the ability to write electronically over the displayed image (annotation).

Equip classrooms with an integrated control panel for control of all audio and video system components, lighting systems, and motorized window coverings (where applicable). To meet this need, a touch screen control panel will be provided. The touch screen control panel will serve as the control panel, lectern monitor, and the annotation input device. Specify control system manufacturers in compliance with established campus standards. The touch screen control panel will be programmed in full compliance with the end user's desired button layout, configuration, and labeling. In addition, macros (multiple events) will occur when a button on the touch panel is engaged.

40- Person Classroom with Distance Education Capability

The 40- person distance education classroom will be provided with a combination of smart classroom and distance education equipment. All smart classroom equipment described in the above section will be provided. In addition, distance education equipment will also be provided including microphones for the students and instructor, cameras for the students and instructor, and supplementary video monitors for the students and instructor. All rooms will be provided with the capability for connection to the Utah Educational Network. In addition, one CODEC will be specified for sharing between the distance education equipped rooms. This will provide the capability to connect one room at a time to one remote site that is not part of the Utah Educational Network.

24- and 20 Person Classrooms

24- and 20-person classrooms will be provided with very basic audio and video systems. Provide a single, smaller scale, projector and projection screen permanently mounted in each room. Size projection screens using industry-wide accepted mathematical formulas appropriate for the nearest and furthest viewers. Locate projection screens in close coordination with seating layouts to assure appropriate viewing sight lines. Provide projectors with a minimum native resolution of 1024 X 768. As with screen sizing, utilize industry-wide accepted mathematical formulas to calculate the required light output for each projector to assure that images will not be "washed out" by ambient room lighting. Include all video system calculations in the construction drawings.

Provide a small audio system for the playback of portable media source audio only. Provide wall or floor mounted computer video, composite video and S-video inputs, with their associated audio signals, to the permanently mounted projector. Resident source devices and integrated control systems are not required in these rooms.

Laboratories

All laboratories will be provided with fully integrated audio, video, and control systems. Audio systems will not be provided for the amplification of the spoken word from presenters. However, audio systems will be provided to amplify program audio originating from media source playback devices such as computers and DVD players.

Each laboratory will be provided with a building standard teaching station (lectern). Several media source devices will be provided and housed at each lectern. These devices will include, but not be limited to, one permanent computer, inputs for one portable computer, a DVD player, a VCR, a document camera, and

audio/video/data sources originating from outside the laboratory. Audio originating from these source devices will be selected, processed, and amplified to an appropriate speaker system. In compliance with the Americans with Disabilities Act, a wireless assisted listening system will be provided.

Provide video systems for the large screen display of laboratory subject matter. Size projection screens using industry-wide accepted mathematical formulas appropriate for the nearest and furthest viewers. Locate projection screens in close coordination with seating layouts to assure appropriate viewing sight lines. Provide projectors with a minimum native resolution of 1280 X 1024. As with screen sizing, utilize industry-wide accepted mathematical formulas to calculate the required light output for each projector to assure that images will not be "washed out" by ambient lab lighting. Include all video system calculations in the construction drawings. Provide one projector and screen with the ability to write electronically over the displayed image (annotation).

Equip laboratories with an integrated control panel for control of all audio and video system components, lighting systems, and motorized window coverings (where applicable). To meet this need, a touch screen control panel will be provided. The touch screen control panel will serve as the control panel, lectern monitor, and the annotation input device. Specify control system manufacturers in compliance with established campus standards. The touch screen control panel will be programmed in full compliance with the end user's desired button layout, configuration, and labeling. In addition, macros (multiple events) will occur when a button on the touch panel is engaged.

Laboratories with Distance Education Capability

The nursing arts lab, main labs, and operator lab will be provided with a combination of smart classroom and distance education equipment. All smart classroom equipment described in the above section will be provided. In addition, distance education equipment will also be provided including microphones for the students and instructor, cameras for the students and instructor, and supplementary video monitors for the students and instructor. The above identified labs will be provided with the capability for connection to the Utah Educational Network. In addition, one CODEC will be specified for sharing between the distance education equipped labs. This will provide the capability to connect one lab at a time to one remote site that is not part of the Utah Educational Network.

TV Distribution System

The campus TV distribution system will be extended into the Health Sciences Education Building. An RF TV distribution system will be provided for distribution of campus audio and video signals throughout the building. The TV distribution system will be provided with cable, amplifiers, splitters, directional couplers, terminators, outlets, and connectors. The system will be the broadband type, for distribution of low resolution, modulated audio and video signals onto a carrier frequency. A minimum 750 MHz bandwidth will be specified, and all outlets will be provided with between +5 and +10 dBu at each building television outlet.

1.5 CLOCK SYSTEM

The campus clock system will be extended into the Health Sciences Education Building. Provide distribution amplification for the campus central clock controller signal throughout the building. Connect clock correcting signal to each building clock in compliance with the manufacturers written instructions. Provide minimum 12" analog clocks driven by self-starting, permanently lubricated, sealed synchronous motors, and equipped with sweep second hands and correcting solenoid actuators. Power all clocks locally from 120 VAC. Battery operated clocks are not acceptable.

technical reports

slcc jordan campus health sciences center



equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
BIOLOGY: Anatomy Lab										
Cadavers				2	2				\$2,000	\$4,000
Cadaver tanks				2	2				\$2,500	\$5,000
Stainless steel book trays for cadaver tanks				2	2				\$200	\$200
Stainless steel drain buckets for cadaver tanks				2	2				\$15	\$15
Fume hood for cadaver tank ventilation system				1	1				\$2,500	\$2,500
Viewing platform				1	1				\$500	\$500
Smaller stainless steel tank for storage of body parts				1	1				\$250	\$250
cabinet with at least five shelves for storage of body parts				1	1				\$200	\$200
1 gallon buckets				30	30					\$120
2 gallon buckets				5	5					\$30
Refrigerator				1	1	Carolina Biological ER-70-1570			\$3,446	\$3,446
20 l. carboys				5	5	Cynmar 150-23779				\$22
spray bottle				10	10	Carolina Biological ER-19-9802				\$84
digital camera (microscope to tv)				1	1	Cynmar VVL-07902			\$399	\$399
complete sets of bones				5	5	Wards Models 82 W 3075				\$995
complete articulated skeleton				1	1	Wards Models 82 W 3020			\$689	\$689

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
skull model				20	20	Wards Models 82 W3612			\$1,580	\$1,580
respiratory model				1	1	Wards Models 81 S 1108				\$462
head model				2	2	Wards Models 81 W2900				\$598
villi model				1	1	Wards Models 81 W0800				\$315
leg muscle model				5	5	Wards Models 81 W 1164				\$2,625
arm muscle model				5	5	Wards Models 81 W 1177				\$1,975
circulatory model				5	5	Wards Models 81 W 3195				\$1,975
eye model				5	5	Wards Models 81 W 1105				\$1,290
trachea and larynx model				5	5	Wards Models 81 W 3140				\$1,795
pancreas model				3	3	Wards Models 81 W 3518				\$465
liver model				5	5	Wards Models 81 W 0916				\$213
stomach/duodenum/pancreas/liver model				3	3	Wards Models 81 W 1152				\$567

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
heart model				5	5	Wards Models 81 W 3015				\$845
spinal cord cross-section model				1	1	Wards Models 81 W 4019				\$205
female reproductive model				3	3	Wards Models 81 W 3199				\$462
male reproductive model				3	3	Wards Models 81 W 1173				\$462
animal cell model				1	1	Wards Models 81 W 3018				\$255
gestation set model				1	1	Wards Models 81 W 3810				\$654
torso model				3	3	Wards Models 81 W 3087				\$1,485
kidneys model				5	5	Wards Models 81 W 3087				\$200
knees model				2	2	Carolina Biological ER-24-7940				\$148
vertebrae set model				5	5	Carolina Biological ER-24-7536				\$242
urinary tract model				1	1	Carolina Biological ER-56-6966				\$405
nephron model				3	3	Carolina Biological ER-56-7800				\$743

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
G-I tract model				3	3	Carolina Biological ER-56-6895A				\$615
ears model				5	5	Carolina Biological ER-56-6966				\$825
tissue model				1	1	Carolina Biological ER-56-7665				\$105
brain model				5	5	Carolina Biological ER-56-6792				\$1,400
set of anatomy charts				1	1	Carolina Biological ER-57-6534				\$550
dissecting trays				25	25	Carolina Biological ER-62-9068				\$974
dissecting tool sets				25	25	Carolina Biological ER-62-1280				\$624
carts				2	2	Cynmar VRM-26281				\$270
ANATOMY Subtotal										\$43,776
BIOLOGY: Physiology Lab										
Computers with CD drives				10	10				\$1,800	\$18,000
refrigerator				1	1				\$800	\$800
digital camera (microscope to tv)				1	1	Cynmar VVL-07902			\$399	\$399
cardiocomp				6	6	Intelitool CC1-WIN-M2				\$5,970
ring stands				3	3	Cynmar 120-30346				\$45

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
ring clamps				3	3	Cynmar 120-30492				\$29
4 l. beakers				2	2	Cynmar 115-43903				\$90
2 l. beakers				2	2	Cynmar 115-33061				\$28
1 l. beakers				6	6	Cynmar 115-33057				\$45
600 ml. beakers				12	12	Cynmar 115-33051				\$46
250 ml beakers				12	12	Cynmar 115-33051				\$31
100 ml beakers				12	12	Cynmar 115-33047				\$33
50 ml beakers				12	12	Cynmar 115-33045				\$31
stethoscope				20	20	Cynmar HUM-13790				\$219
Sphygmomanometers				20	20	Cynmar HUM-13857				\$499
hot plates/stirrers w. stirring rods				5	5	Cynmar CAN-50170				\$1,595
physiogrip (incl. computers with software)				6	6	Intelitool PG-WIN-M2				\$5,250
stimulators w/ electrodes				6	6	Intelitool 7092-611				\$3,600
spirometers				10	10	Carolina Biological ER-69-2658				\$5,100
pack of spirometer mouthpieces				1	1	Carolina Biological ER-69-2662				\$15
10 ml graduated cylinders, PP				2	2	Cynmar 150-23160				\$3
50 ml graduated cylinders, PP				2	2	Cynmar 150-23164				\$9

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs) (Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)										
DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
100 ml graduated cylinders, PP				4	4	Cynmar 150-23166				\$10
500 ml graduated cylinders, PP				4		Cynmar 150-23170				\$17
1 l.graduated cylinders, PP				2	2	Cynmar 150-23172				\$12
spectrophotomers				4	4	Carolina Biological ER-65-3304				\$3,980
cuvettes for spectrophotomers				12	12	Carolina Biological ER-65-3310				\$60
incubators				1	1	Cynmar ALL-49805				\$340
carts				2	2	Cynmar VRM-26281				\$270
P1000 pipetters				2	2	Carolina Biological ER-21-4674				\$358
P200 pipetters				2	2	Carolina Biological ER-21-4672				\$358
P20 pipetters				2	2	Carolina Biological ER-65-3304				\$358
P10 pipetters				2	2	Carolina Biological ER-21-4676A				\$396
1 l. plastic containers/bottles				10	10	Cynmar 150-23841				\$17
2 ml pipette pumps				5	5	Cynmar 150-24572				\$30
10 ml pipette pumps				5	5	Cynmar 150-24574				\$38
Hematocytometers				10	10	Carolina Biological ER-70-0720				\$2,175

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
rulers, plastic				10	10	Carolina Biological				\$13
hand counters				10	10	Cynmar 094-07001				\$65
microcentrifuge				1	1	Cynmar CLN-51725				\$795
small pH meter				10	10	Cynmar MHA-52301				\$250
electronic scale				1	1	Cynmar OAC-16034				\$18
test tube racks				20	20	Cynmar 15023078				\$150
vortexers				2	2	Cynmar ALN-50038				\$346
SUBTOTAL										\$51,891
BIOLOGY: Microbiology Lab										
BIOLOGY: General Biology Lab										
BIOLOGY Subtotal										\$0
BIOTECHNOLOGY TECHNICIAN										
										\$0
MEDICAL ASSISTING/ MEDICAL ADMINISTRATIVE ASSISTING										
Exam table	1				1				\$750	\$750
Anatomical charts					1 set				\$2,000	\$2,000

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
Bank of x-ray viewing boxes					1				\$900	\$900
New full size skeleton					1				\$1,000	\$1,000
Storage cabinet for x-ray film					1				\$500	\$500
Rolling or pivoting wall unit for patient bed									\$3,000	\$0
Anatomical chart					1				\$2,000	\$2,000
X-ray phantom					1				\$5,000	\$5,000
Misc. x-ray wedges									\$500	\$0
X-ray film and screen									\$2,000	\$0
Student computers	2				36				\$1,500	\$54,000
Computer printers					36				\$700	\$25,200
10-key machines					15				\$150	\$2,250
DVI System					1				\$4,000	\$4,000
copy machine					1				\$1,000	\$1,000
file system									\$1,500	\$0
foot pads					15				\$40	\$600
head phones					15				\$40	\$600
software				36					\$0	
blood drawing chair	3				2				\$470	\$940
wire test tube rack					2				\$21	\$42
Adams nutator Mixer		1		1	2				\$336	\$672
treatment table					1				\$315	\$315
3-drawer cabinets					2					\$0
pneumatic stool					2				\$285	\$570
eye irrigation station					1					\$0
eye/face wash						Opti Klens II			\$88	\$0

equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
wall-mounted sharps container	4				2					\$0
misc. phlebotomy supplies										\$0
computer					1				\$1,000	\$1,000
automated cell counter		2	1		1	Coulter			\$15,000	\$15,000
chem seryalyser with printer					1				\$10,000	\$10,000
incubator					1				\$300	\$300
full-size residential-type refrigerator					1				\$500	\$500
hemoglobinometer					1				\$1,500	\$1,500
bacti-cinerator					1				\$200	\$200
nutater mixer		1		2	2				\$350	\$700
microscope table		8		10	10				\$300	\$3,000
microscopes		8			12				\$800	\$9,600
hct centrifuge		2		5	5				\$1,300	\$6,500
urine centrifuge		2		5	5	Cky Adams			\$2,300	\$11,500
lab stools		12	12	8	8				\$425	\$3,400
misc supplies (tube racks, stain kits, glass slide covers, cover slips, pipettes)										\$0
computer	5				1				\$1,000	\$1,000
med office procedure room					1	Universal power			\$9,000	\$9,000
OR suction with cart					1				\$1,500	\$1,500
physician stool					1				\$200	\$200

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs) (Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)										
DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
dappler					1				\$800	\$800
cast cutter					1				\$800	\$800
spirometer with printer					1				\$2,500	\$2,500
oxygen with cart					1				\$500	\$500
IV stand					1					\$0
autoclave					1			28" x 34" x 5"	\$7,500	\$7,500
operating room light					1				\$2,000	\$2,000
large mayo stand					1				\$165	\$165
flex sigmoidoscope					1				\$8,000	\$8,000
electrosurgical unit					1	Hyfactor			\$1,000	\$1,000
instruments		100			?					\$0
dressing jars				4	4					\$0
instrument tray		4	4	3	3					\$0
wall-mount sharps container		2	2	2	2					\$0
exam tables	7a				2				\$1,000	\$2,000
pneumatic stools					2					\$0
wall-mounted otoscope					1				\$500	\$500
gooseneck lamp					1				\$115	\$115
wall-mounted sharps containers					2					\$0
computer					1				\$1,000	\$1,000
mayo stand					1				\$165	\$165
blood pressure cuffs					8				\$39	\$312
nebulizer		1			1					\$0
microscope					1					\$0
alcohol jars										\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs) (Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)									
DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS				
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)
glass containers									\$0
gynecological testing supplies									\$0
cotton balls, q-tips, and other consumables									\$0
computer	7b				1				\$1,000
patient exam table		2	1		1				\$1,000
wall-mounted otoscope					1				\$550
physician's stool		2	2		2				\$200
Ishiherg color book					1				\$200
pediatric exam table					1				\$1,900
audiometer with printer					1				\$1,000
gooseneck lamp					1				\$115
blood pressure cuffs		12			8				\$45
wall-mount sharps container		2	2		4				\$20
electric adult scale	7b				1				\$750
mayo stand		2			2				\$100
medical office step stool					2				\$34
small autoclave					1				\$0
assorted dressing jars					2 sets				\$0
misc. supplies (bandaging, tape, alcohol preps, exam instruments)									\$0
computer	8				1				\$1,000
multichannel ECG					2	Burdick			\$5,900
Holter monitor					1				\$2,500
Rolling ECG stand					4				\$300

equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
Privacy drapes					2				\$100	\$200
wood ECG table					2				\$500	\$1,000
misc. supplies (electrodes, patient drapes)										\$0
Medical Assisting SUBTOTAL										\$229,919
MEDICAL LABORATORY TECHNICIAN										
microscopes	1			20	20	Olympus Scientific Instrument Company			\$1,500	\$30,000
spectrophotometers		6								\$0
microhematocrit centrifuges		4								\$0
autoclave				1	1				\$6,000	\$6,000
small incubator				1	1				\$1,600	\$1,600
full-size refrigerator				1	1				\$800	\$800
specimen centrifuge				1	1				\$300	\$300
Medical Laboratory Technician SUBTOTAL										\$38,700
NURSING (RN)										
crash cart	3	1			1					\$0
cath sim computer with 5' tall mobile cabinets		4			4					\$0
Sim Man high tech mannikin		1			1					\$0
printer		1			1					
hospital beds		5			11					\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
mannikins		5			5					\$0
baby scale		1			5					\$0
IV pumps		6			6					\$0
Kangaroo pump		1			1					\$0
Linen storage racks/ cabinets		1			1					\$0
hoyer lift		1			1					\$0
Nursing										\$0
SUBTOTAL										\$0

OCCUPATIONAL THERAPY ASSISTANT

student tables	1	12								
student chairs		50								
instructor table		1								
tv/vcr with cart		1								
overhead projector with cart		1								
small table	2									
computer stations	3	6								\$0
printer station			1							
bookshelves		2	2		4					
rolling stools		4								
full-size residential-type refrigerator	5	1								\$0
full-size residential-type oven and range		1								\$0
full-size residential-type microwave		1								\$0
full-size residential-type oven		1								\$0

equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
kitchen sink, cabinet and counters										
residential-type washer										
residential-type dryer										
bathroom sink										
toilet with grab bars										
tub with bench										
hospital bed										
night stand										
couch										
coffee table										
standing mirror										
sewing machines	6	2		2	4					
tables		2	2					4' x 8'		
tables		4						3' x 4'		
adjustable tables		2								
8 splint pans		8								
swing structure	8	1						25' x 30'		\$0
mat tables		4						4' x 8'		\$0
hanging wedges and bolsters										\$0
strollers	10-14	2								\$0
peds chairs		2								\$0
ped feeder		1								\$0
weight cart		1								\$0
walkers		2								\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
tub benches	10-14	2								\$0
wheelchairs		10	2		12					\$0
tool hang board										\$0
saw horses										\$0
utility shelves		4	3		7					\$0
folding banquet tables		3	1		4					\$0
rubbermaid bins										\$0
circular saws		2								\$0
jig saws		2								\$0
hand saws		1								\$0
drills, electric		2								\$0
assessment and therapy equipment										\$0
ADL equipment										\$0
SUBTOTAL Occupational Therapy Assistant										\$0
PHARMACY TECHNICIAN										
student computers	2			30	30				\$1,000	\$30,000
simulated drug supplies	3									\$0
SUBTOTAL Pharmacy Technician										\$30,000
PHYSICAL THERAPIST ASSISTANT										
wall-mounted pull-down mat	2			2	2	Pro-Med	mounting support	4' x 7' 20"high	\$600	\$1,200
mat table				2	2	Pro-Med			\$500	\$1,000
treatment plinths		2		4	6	Pro-Med			\$675	\$2,700
Adapta hi/lo table				1	1	Pro-Med	110 power		\$1,900	\$1,900

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
footstools				8	8	Pro-med			\$24	\$192
stall bars				1	1	Pro-med	wall support, mounts	36" wide, 96" high	\$360	\$360
total gym		1			1					\$0
BAPS		1		1	2		wall mount		\$500	\$500
steel cart		1		7	8					\$0
recumbent bike										\$0
wheelchair										\$0
automatic blood pressure unit		4		4	8				\$100	\$400
stethoscopes		4		4	8				\$25	\$100
wooden patient chairs with arms, upholstered				8	8		no metal		\$100	\$800
work hardening weight boxes				6	6				\$90	\$540
Dynatronics infrared				1	1	Dynatronics Corp.			\$2,000	\$2,000
Therapy benches		2		2	4	Therapy Skill Builders				\$0
Therapy balls, variety		18		6	24	Pro-med			\$180	\$1,080
TENS		3		4	6				\$60	\$240
EMS		2		4	6				\$100	\$400
Iontophoresis unit		1		5	6				\$2,000	\$10,000
Electrical stimulus combo unit		2		4	6				\$2,200	\$8,800

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
bifoam rollers, set		1		6	7			6" diameter, 36" long	\$46	\$276
functional training grid				1	1			rolls up	\$229	\$229
treatment plinth, blue	3			7	7	Pro-med		24"x26" x29"	\$675	\$4,725
Adapta electric hi/low table, blue				1	1	Pro-med			\$1,900	\$1,900
adjustable rolling stool, blue				8	8	Pro-med	all-metal construction		\$89	\$712
scale, BMI, water, and computerized	3			1	1					\$0
posture evaluation kit		1			1		wall or ceiling mount	25" x 48" x 12"		\$0
mirror, portable, on wheels				2	2	Pro-med		28"wide, 75" high	\$275	\$550
skeleton, deluxe, pelvic mounted				1	1	Pro-med			\$700	\$700
automatic blood pressure cuffs				6	6				\$100	\$600
tv/vcr/dvd				1			wall mounted			\$0
camcorder, digital, and tripod				1	1					\$0
x-ray viewer / illuminator				1	1		wall mounted plug	16" x 21"	\$150	\$150
biodex balance master		1			1					\$0
hospital bed				1	1		power			\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs) (Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)										
DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
bifoam rollers, set		1		6	7			6" diameter, 36" long	\$46	\$276
functional training grid				1	1			rolls up	\$229	\$229
treatment plinth, blue	3			7	7	Pro-med		24"x26" x29"	\$675	\$4,725
Adapta electric hi/low table, blue				1	1	Pro-med			\$1,900	\$1,900
adjustable rolling stool, blue				8	8	Pro-med	all-metal construction		\$89	\$712
scale, BMI, water, and computerized	3			1	1					\$0
posture evaluation kit		1			1		wall or ceiling mount	25" x 48" x 12"		\$0
mirror, portable, on wheels				2	2	Pro-med		28"wide, 75" high	\$275	\$550
skeleton, deluxe, pelvic mounted				1	1	Pro-med			\$700	\$700
automatic blood pressure cuffs				6	6				\$100	\$600
tv/vcr/dvd				1			wall mounted			\$0
camcorder, digital, and tripod				1	1					\$0
x-ray viewer / illuminator				1	1		wall mounted plug	16" x 21"	\$150	\$150
biodex balance master		1			1					\$0
hospital bed				1	1		power			\$0

equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS						
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)	
bifoam rollers, set		1		6	7			6" diameter, 36" long	\$46	\$276	
functional training grid				1	1			rolls up	\$229	\$229	
treatment plinth, blue		3			7	7	Pro-med		24"x26" x29"	\$675	\$4,725
Adapta electric hi/low table, blue				1	1	Pro-med			\$1,900	\$1,900	
adjustable rolling stool, blue				8	8	Pro-med	all-metal construction		\$89	\$712	
scale, BMI, water, and computerized		3			1	1					\$0
posture evaluation kit		1			1		wall or ceiling mount	25" x 48" x 12"		\$0	
mirror, portable, on wheels				2	2	Pro-med		28"wide, 75" high	\$275	\$550	
skeleton, deluxe, pelvic mounted				1	1	Pro-med			\$700	\$700	
automatic blood pressure cuffs				6	6				\$100	\$600	
tv/vcr/dvd				1			wall mounted			\$0	
camcorder, digital, and tripod				1	1					\$0	
x-ray viewer / illuminator				1	1		wall mounted plug	16" x 21"	\$150	\$150	
biodex balance master			1			1					\$0
hospital bed					1	1		power			\$0

equipment requested by component departments

slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
dummy				1	1					\$0
gait grid		1			1					\$0
stethoscope				2	2				\$20	\$40
ceiling hooks				2	2					\$0
manual muscle testers		2		6					\$900	\$5,400
2 booths with curtains										\$0
sink with hot water, gooseneck faucet, and casting drum										\$0
base cabinets with drawers										\$0
4-plex outlets at floor, 4' height, and above counter	3									\$0
flake ice machine	4			1	1	Pro-med	power, water	24" x 24" x 39"	\$2,600	\$2,600
hi/low sports whirlpool on wheels				1	1	Pro-med	power, water	48" x 20" 25"	\$2,100	\$2,100
whirlpool table with seats				1	1	Pro-med			\$800	\$800
lo-boy whirlpool				1	1	Pro-med	power, water	52" x 24" x 18"	\$2,600	\$2,600
tank top seat for whirlpool				1	1	Pro-med		24" wide	\$600	\$600
mobile whirlpool with hydrolift				1	1		power, water		\$2,500	\$2,500
adjustable suspension seat				1	1			24" wide	\$150	\$150
adjustable whirlpool chair				1	1				\$400	\$400
large capacity washer				1	1		power, water			\$0
large capacity dryer				1	1		power, vent			\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs) (Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANUFACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
										\$0
water mixer on wall										\$0
automatic spray cleaner hose set-up										\$0
deep sink with gooseneck faucet										\$0
wall-mounted cabinets										\$0
observation windows on one wall										\$0
ceramic tile floor with floor drain										\$0
										\$0
Hoyer lift	5			1	1					\$0
wall-mounted cabinets										\$0
wall rack for crutches	6			2	2	Pro-med	structura l support	60" long, 17" high	\$185	\$370
steel shelf, large										\$0
file cabinets, 4-drawer letter size				2	2		power		40" high approx.	\$80
small refrigerator/freezer				1	1					\$0
standard shelf units										\$0
PTA SUMMARY										\$116,439

RADIOLOGIC TECHNOLOGY / RADIOLOGIC SPECIALTIES

Computer Radiography	2-3			1	1					\$0
Tube, table, and bucky for 12 x 12 radiography room							240 single phase power	for 12 x 12 room	\$40,000	\$0

equipment requested by component departments slcc jordan campus health sciences center



MOVABLE EQUIPMENT REQUESTED BY DEPARTMENTS (with department costs)

(Built-ins, construction requirements, and media equipment have been eliminated because they are itemized separately in space sheets and cost estimates)

DEPARTMENT / ITEM	SPACE #	STATUS			DETAILS					
		HAVE IT NOW	WILL HAVE IN	ACQUIRE FOR NEW BUILDING	TOTAL NUMBER NEEDED	PREFERRED MANU-FACTURER(S)	SPECIAL NEEDS	APPROX SIZE	APPROX COST PER EACH (2003 \$)	TOTAL ESTIMATED ITEM COST (2003\$)
CR Reader				1	1	Orex			\$80,000	\$80,000
Digitizer				1	1				\$20,000	\$20,000
Dicom Network Server and Archive				1	1		connect to class room		\$15,000	\$15,000
Wiring network				1	1					\$0
LCD reader / CRT monitor /landscape				2	2				\$14,000	\$28,000
Illuminators		4		4	4			4 x 4 \$1300; 6 x 6 \$2000	\$2,000	\$8,000
Ultrasound machine				1	1	Sequoia with 4 probes	connect to CR network for image viewing		\$140,000	\$140,000
RADIOLOGIC TECHNOLOGY /RADIOLOGIC SPECIALTY SUBTOTALS										\$291,000
SURGICAL TECHNOLOGY										
Electrohydraulic OR Tables				2	2					\$0
Round table clamps				4	4					\$0
Square table clamps				4	4					\$0
Arm boards				4	4					\$0
Hand table attachment				2	2					\$0
Foot board attachment				2	2					\$0

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

Cadaver Laboratory Design Process:
Step by Step

PURPOSE: The purpose of this document is to assist any faculty member designing a cadaver laboratory at the college level. Since individual needs and budgets vary, these are general guidelines rather than specific directives.

DISCLAIMER: The following is only a list of general suggestions. Since laws regarding cadaver use differ from State to State and country to country, it is the responsibility of the reader to follow any and all regulations for the region in which he/she is working. Please contact your closest Willd Body Program or other authorized cadaver supplier to obtain further information.

Step 1: Obtain legal authorization

Check your state laws and regulations with respect to your intended use of cadavers and human material. Typically, cadavers are obtained from a donor program (governmental, non-profit, or for-profit) which has been granted written permission by the deceased or immediate family member(s). Be sure you understand the duties and responsibilities of your institution with respect to the cadaver supplier. For example, it needs to be very clear who will handle transportation and disposition of the bodies following use by your institution. Any and all fees to your institution also needs to be put in writing.

Step 2: Answer 6 questions

1) How many cadavers will be stored in the lab?

Don't make your working situation too crowded. If cadavers are to be maintained in a dedicated space, then students and faculty will need free space to work.

Recommendation: Consider leaving a space of at least a 3 foot circumference around each cadaver table. This allows people to work without bumping in to each other.

2) What type of ventilation system will be used?

Getting adequate ventilation is a **very critical** item. The normal ventilation system used for a lecture or general lab room is insufficient for a cadaver lab. Special arrangements should be made. For the health of instructors and students alike, you must keep exposure to formaldehyde and other toxic chemicals at an acceptable level. Some ventilated cadaver tables have special down draft systems

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

that remove vapors very nicely. This is an ideal system since it reduces chemical exposure by keeping fumes away from the faces of instructors/students as they are working on the cadavers. Moreover, it is good to have room air exhausted at floor level since this keeps heavy chemical vapors flowing in a downward direction away from human exposure. At the very least you will need an exceptionally good air intake and exhaust system for the cadaver lab. Check to be sure there are a sufficient number of air exchanges per hour, ensuring a regular supply of fresh air to the lab.

Recommendation: Air exchanges for cadaver dissection areas should have their own dedicated system to increase air flow. Ideally, a rate of **18-20 air exchanges per hour** is recommended with venting at floor level. By comparison, most rooms (classrooms, offices, lecture rooms and other areas without toxics) have a minimal standard of six (6) air exchanges per hour. Eight (8) air exchanges per hour would be a better benchmark. Lab areas without fume hoods are usually set at about 10 exchanges per hour. Fume hoods for toxic materials are set at 100 linear feet per minute with a 17" fume hood opening.

3) What course(s) will use this lab the most?

If you are designing a new science building or renovating an old one, you may want to consider placing those labs which will use the cadaver lab the most (e.g. anatomy) directly adjacent to it.

4) How will cadavers enter and leave the lab?

Trace the pathway from where a new cadaver will enter the building to its final destination in the cadaver lab. Be certain you have wide, well positioned doors that allow for easy entry/exit in and out of the lab. If you are using immersion tables for your cadavers, you will also need doors wide enough to accommodate them.

5) How will the cadavers be used within the context of the course?

Will the cadavers be used for traditional station-to-station lab exams? Will they remain in the cadaver lab or will they be moved to another lab on a regular basis? Answering these questions will help you think about the layout that will be best suited to your needs.

6) Refrigeration? Yes or no?

Some cadaver labs use refrigeration while others do not. Refrigeration has the benefit of reducing moisture in the room, thereby preventing tissue deterioration by mold. On the other hand, these systems can be noisy, increase dessication, and need regular maintenance like any other mechanical device. In short, there are pros and cons to either approach. If you choose to not use refrigeration, it is best to have an independent thermostat in the lab. If you are able to remove limbs and organs from cadavers (check about the regulation on this with your cadaver supplier), you may opt to store these in a separate refrigerator with large, sliding glass doors.

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

Step 3: Room design/ building material considerations

- Flooring - heavy duty, durable.

Regular linoleum is unacceptable. You will need a commercial grade linoleum product. If you opt to paint your floors, use epoxy based paint.

- "Shower area" with garden hose, floor drain

It is very handy to have a small shower area for rinsing out the plastic tubs in which you may be storing your cadavers. It is also handy to have a drain. Some opt to get a floor drain located in the middle of the floor for the purpose of hosing down the floor and thoroughly cleaning it. This requires a slope to the floor so that the water channels itself toward the drain. A special chemical trap behind the drain may be needed depending on your State law requirements. If you do not use a floor drain, simply have an adequate drain in the shower area.

- Wide metal doors

For ease of transporting cadavers in and out of the lab, wide metal doors are essential. A standard single door width of 34" is really not acceptable.

Recommendation: Use metal doors with rubber bumpers. The minimum door width should be 42". This will allow for the transport of a cadaver on a mobile cadaver table to be easily moved in and out of the lab. Of course, wider is better in this case.

- Eye wash and chemical shower station

For general safety, this should be located in or near the cadaver lab.

- Air curtains

These can be installed on the inside of the access doors to keep odors confined to the cadaver lab area.

- Avoid crowding

As already stated, students and faculty will need room to work in a dedicated cadaver lab (see step 2 – item #1)

Step 4: Suggested equipment/materials

- Stainless steel for cabinetry & shelves

If you can choose your cabinetry, select stainless steel since it has the benefit of being very easy to clean and will not collect mold spores.

- Hinged shelving around the perimeter of the room

This is optional but it gives the added benefit of being able to fold it flat against

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

the wall when it is not in use. If you choose this option, get an electrical power strip running along the wall parallel to the shelf. This allows for electronic equipment such as microscopes, video cameras, and additional lighting to be used in the cadaver lab which is a nice convenience.

- Sinks, faucets

It is most convenient to have sinks that are wide, deep and made of stainless-steel. Foot-pedal operated sinks are a good option. Gooseneck faucets are handy. Position the sinks at opposite ends of the lab. A garbage disposal may be helpful provided that it is not abused. In the event that it is not properly used, you may have the additional problem of having clogged sinks.

- Lighting

There are a variety of options depending on your budget. Regular fluorescent lighting in the ceiling is acceptable. Another option is to use track lighting with halogen bulbs and a rheostat. The best, most expensive option would be to order special Ceiling Exam lighting units. These either lock into a track or are fixed to an arm like surgical lighting in an operating room.

- Cadaver tables -

Cadaver tables are typically constructed of stainless steel and come in a variety of models. Different models include mobile/non-mobile, hooded tables (with lid to cover and secure the cadaver when not in use), immersion tables (reduces dessication), and ventilated tables (reduces chemical exposure). Expect a new, basic cadaver table to cost about \$3,000. Depending on your budget, you have a number of options for obtaining cadaver tables. For cost savings you may contact either your local mortuary or Willd Body Program to obtain old tables they may be replacing. Another less expensive option is to order stainless steel tables directly from a local steel fabricator. The most expensive alternative is to order new tables directly from a manufacturer. If you obtain new tables, features you may want to consider include: a slot for a stainless steel bookstand, a drainage hole in the table, and lockable wheels with a good turning radius.

Useful accessories to your cadaver tables includes the following:

- *Stainless steel book stands* – to allow students to easily reference lab manuals, photographic atlases and other in-print materials
- *Tubs/ trays* – these can be made of plastic or other materials. The cadaver rests in the tub and the tub rests on top of the stainless steel cadaver table.
- *Tray covers* – these are usually made of aluminum. You can either order them from a supplier or design one yourself.
- *Drainage bucket* – depending on what type of cadaver table you order, some models have a central drainage tube to remove excess liquid preservatives. This requires a drainage bucket on a lower tray located beneath the cadaver.

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

the wall when it is not in use. If you choose this option, get an electrical power strip running along the wall parallel to the shelf. This allows for electronic equipment such as microscopes, video cameras, and additional lighting to be used in the cadaver lab which is a nice convenience.

• Sinks, faucets

It is most convenient to have sinks that are wide, deep and made of stainless-steel. Foot-pedal operated sinks are a good option. Gooseneck faucets are handy. Position the sinks at opposite ends of the lab. A garbage disposal may be helpful provided that it is not abused. In the event that it is not properly used, you may have the additional problem of having clogged sinks.

• Lighting

There are a variety of options depending on your budget. Regular fluorescent lighting in the ceiling is acceptable. Another option is to use track lighting with halogen bulbs and a rheostat. The best, most expensive option would be to order special Ceiling Exam lighting units. These either lock into a track or are fixed to an arm like surgical lighting in an operating room.

• Cadaver tables -

Cadaver tables are typically constructed of stainless steel and come in a variety of models. Different models include mobile/non-mobile, hooded tables (with lid to cover and secure the cadaver when not in use), immersion tables (reduces dessication), and ventilated tables (reduces chemical exposure). Expect a new, basic cadaver table to cost about \$3,000. Depending on your budget, you have a number of options for obtaining cadaver tables. For cost savings you may contact either your local mortuary or Willd Body Program to obtain old tables they may be replacing. Another less expensive option is to order stainless steel tables directly from a local steel fabricator. The most expensive alternative is to order new tables directly from a manufacturer. If you obtain new tables, features you may want to consider include: a slot for a stainless steel bookstand, a drainage hole in the table, and lockable wheels with a good turning radius.

Useful accessories to your cadaver tables includes the following:

- *Stainless steel book stands* – to allow students to easily reference lab manuals, photographic atlases and other in-print materials
- *Tubs/ trays* – these can be made of plastic or other materials. The cadaver rests in the tub and the tub rests on top of the stainless steel cadaver table.
- *Tray covers* – these are usually made of aluminum. You can either order them from a supplier or design one yourself.
- *Drainage bucket* – depending on what type of cadaver table you order, some models have a central drainage tube to remove excess liquid preservatives. This requires a drainage bucket on a lower tray located beneath the cadaver.

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

- Video monitors

If you have a large student to cadaver ratio, you may choose to have video monitors mounted in the ceiling to allow for easy viewing of dissections/demonstrations for all students.

- Viewing Platform

If you have a large student to cadaver ratio, this is another good option. Like stadium seating, this is "stadium standing" which allows for easy viewing of dissections/demonstrations.

- Containers for disposable items

You should have separate containers in the lab for sharps, soft cadaveric tissue, and disposables (gloves, etc.). Consult your cadaver supplier with their rule for soft cadaver tissues. Some will request that this material be returned with the cadaver after it is finished being used.

Step 5: Special considerations

- Temperature regulation

Get an independent thermostat if refrigeration is not used. This will allow you to independently control the room temperature to make it cooler than other lab rooms.

- Security

The lab should not have a doorway that opens to a public corridor. For maximum security to the lab, get a key or ID card system that only allows faculty with a special card to enter the lab. Consider who will be allowed to have access. Consider what policy you will use for student use. Will students only be able to use it only during scheduled lab times or will they have "free access"? Consult your cadaver supplier since they will likely require that a faculty member be present when students are working on the cadaver. If an ID card system is not possible, you might use a padlock or other lock and key method.

- Safety

Proactively work with your college's safety officer to evaluate whether you are in compliance with Federal, State, and local requirements. There should be provisions for periodic monitoring. If the embalming fluids used to prepare the cadavers contain formaldehyde and/or phenol, their levels in the lab need to remain at acceptable levels. If the levels are too high, do you have adequate ventilation in place? Copies of the Chemical Material Safety Sheet for the chemicals used in the lab (including the embalming and wetting solutions) should be readily available. A plan should also be in place for general safety procedures such as scalpel cuts, chemical sensitivity, etc. All students, faculty, and staff working in the lab should be trained in blood borne pathogens and biohazard

prepared by
Paul Krieger, Professor of Biology
Grand Rapids Community College

chemical and safety procedures. Finally, you should also consider a liability release form signed by the student to indicate there is always a potential risk when dealing with cadaveric dissection.

- Consider traffic flow

Doors should be placed for easy student movement between the cadaver lab and adjacent labs/rooms. There should be more than one entrance to the lab. You may want as many as three entrances.

- Disposal

Use biohazard bags to store cadaveric soft tissues. Consult your cadaver supplier for the proper procedure for final disposal of these tissues. Some will require that you keep this material and include it with your cadaver when returning it to the supplier. Also, be sure a policy is in place for disposal of other materials such as sharps, gloves, etc.